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Scientific and Technical Information Center

SEARCH REQUEST FORM

Requester's Full Name: JANE ZARA Examiner #: 7751 Date: 5/24/06
Art Unit: 1635 Phone Number: 2-0765 Serial Number: 872006300
Location (Bldg/Room#): 2228 (Mailbox #): 2C18 Results Format Preferred (circle): PAPER DISK

To ensure an efficient and quality search, please attach a copy of the cover sheet, claims, and abstract or fill out the following:

Title of Invention: Modn ab HIF 1 L
Inventors (please provide full names): D T WARD et al.

Earliest Priority Date: 11/21/03

Search Topic:

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc., if known.

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Please Search Seq ID

20NA
No: 446

Length limits betw 13 - 50 NTS
12 - 50 NTS

70% Homology or greater
SCORE OVER LENGTH SEARCH

No interference into bases

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Searcher: Jan

Searcher Phone #: 22504

Searcher Location: _____

Date Searcher Picked Up: 6/6/06

Date Completed: 6/13/06

Searcher Prep & Review Time: 15

Online Time: 45

Type of Search

☒ NA Sequence (#)

☐ AA Sequence (#)

☐ Structure (#)

☐ Bibliographic

☐ Litigation

☐ Fulltext

☐ Other

Vendors and cost where applicable

☐ STN ☐ Dialog

☐ Questel/Orbit ☐ Lexis/Nexis

☐ Westlaw ☐ WWW/Internet

☒ In-house sequence systems

☒ Commercial ☐ Oligomer ☒ Score/Length
☐ Interference ☐ SPDI ☐ Encode/Transl
Other (specify) _____

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GenCore version 5.1.9
Copyright (c) 1993 - 2006 Bioceleration Ltd.

OM nucleic - nucleic search, using sw model

Run on: June 13, 2006, 15:51:49 ; Search time 0.001 Seconds
(without alignments)
12,960 Million cell updates/sec

Title: US-10-719-370A-446

Perfect score: 20

Sequence: 1 cctcatgctcacatgatga 20

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 0.5

Searched: 25 seqs, 324 residues

Total number of hits satisfying chosen parameters: 50

Minimum DB seq length: 12

Maximum DB seq length: 50

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 25 summaries

Database : us-10-719-370a-446.sl.rml4:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	14.8	74.0	19	1	US-08-846-020A-22
2	14.8	74.0	19	1	US-09-617-871-22
3	12.2	61.0	17	1	US-09-866-108A-7612
4	10.8	54.0	15	1	US-09-081-646-513
5	9.4	47.0	13	1	US-09-374-704-12
6	9.4	47.0	13	1	US-09-374-704-13
7	9.4	47.0	13	1	US-08-441-887A-200
8	8.4	42.0	12	1	US-08-030-335-10
9	8.4	42.0	12	1	US-07-973-431B-3
10	8.4	42.0	12	1	US-08-122-433-26
11	8.4	42.0	12	1	US-08-623-891-24
12	8.4	42.0	12	1	US-08-480-020B-10
13	8.4	42.0	12	1	US-08-910-618-10
14	8.4	42.0	12	1	US-09-105-515-2
15	8.4	42.0	12	1	US-08-910-322-10
16	8.4	42.0	12	1	US-08-679-493A-68
17	8.4	42.0	12	1	US-08-484-539A-10
18	8.4	42.0	12	1	US-09-340-861-24
19	8.4	42.0	12	1	US-09-634-262-24
20	8.4	42.0	12	1	US-09-384-044-2
21	8.4	42.0	12	1	US-09-748-472-10
22	8.4	42.0	12	1	US-09-835-370-54
23	8.4	42.0	12	1	US-09-793-146-38
24	8.4	42.0	12	1	US-09-793-146-48
25	8.4	42.0	12	1	US-09-793-146-49

ALIGNMENTS

RESULT 1
US-08-846-020A-22
; Sequence 22, Application US/08846020A

Patent No. 6090547
; GENERAL INFORMATION:
; APPLICANT: Drazen M.D., Jeffrey M.
; APPLICANT: In M.D., Kwang-Ho
; APPLICANT: Asano M.D., Koichiro
; APPLICANT: Beter, David
; APPLICANT: Grobholz, James
; TITLE OF INVENTION: 5-Lipoxygenase Gene Sequence
; NUMBER OF SEQUENCES: 43
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: CHOATE, HALL & STEWART
; STREET: 53 State Street
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; COMPUTER READABLE FORM:
; ZIP: 02109-2891
; COUNTRY: USA
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/846,020A
; FILING DATE:
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: Jarrell Ph.D., Brenda H.
; REGISTRATION NUMBER: 39,223
; REFERENCE/DOCKET NUMBER: 0092662-0012
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 248-5000
; TELEFAX: (617) 248 4000
; INFORMATION FOR SEQ ID NO: 22:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 19 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULAR TYPE: other nucleic acid
; DESCRIPTION: /desc = "primer"
; IMMEDIATE SOURCE:
; CLONE: Exon 4 sense primer
; US-08-846-020A-22
; Query Match 74.0%; Score 14.8; DB 1; Length 19;
; Best Local Similarity 88.9%; Pred. No. 0.91;
; Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
; QY 2 CTCATGCTCAGATGATG 19
; DB 2 CTCATGCTCAGATGATG 19
; RESULT 2
; US-09-617-871-22
; Sequence 22, Application US/09617871
; Patent No. 6355434
; GENERAL INFORMATION:
; APPLICANT: Drazen M.D., Jeffrey M.
; APPLICANT: In M.D., Kwang-Ho
; APPLICANT: Asano M.D., Koichiro
; APPLICANT: Beter, David
; APPLICANT: Grobholz, James
; TITLE OF INVENTION: 5-Lipoxygenase Gene Sequence
; NUMBER OF SEQUENCES: 43
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: CHOATE, HALL & STEWART
; STREET: 53 State Street
; CITY: Boston
; STATE: MA
; COUNTRY: USA

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; ZIP: 02109-2891
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/617,871
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/846,020
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Jarell Ph.D., Brenda H.
; REGISTRATION NUMBER: 39,223
; REFERENCE/DOCKET NUMBER: 0092662-0012
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 248-5000
; TELEFAX: (617) 248 4000
; INFORMATION FOR SEQ ID NO: 22:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 19 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "primer"
; IMMEDIATE SOURCE:
; CLONE: Exon 4 sense primer
US-09-617-871-22
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Query Match          74.0%; Score 14.8; DB 1; Length 19;
Best Local Similarity 88.9%; Pred. No. 0.91;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
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QY      2 CTCATGTCACATGATG 19
DB      2 CTCATGTCACATGATG 19
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RESULT 3
US-09-866-108A-7612/c
; Sequence 7612, Application US/09866108A
; Patent No. 6686188
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharon G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108A
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
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; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15755
; SOFTWARE: Aecomica Sequence Listing Engine
; Patent No. 6686188
; SEQ ID NO 7612
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108A-7612
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Query Match          61.0%; Score 12.2; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 2.8;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
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QY      1 CCTCATGTCACATGGA 17
DB      17 CCTCATGTCACATGGA 1
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RESULT 4
US-09-081-646-513
; Sequence 513, Application US/09081646
; Patent No. 633152
; GENERAL INFORMATION:
; APPLICANT: Kinzler, Kenneth
; APPLICANT: Vogelstein, Bert
; APPLICANT: Zhang, Lin
; APPLICANT: Zhou, Wei
; TITLE OF INVENTION: Gene Expression Profiles in No. 633152mal and
; FILE REFERENCE: 01107.74664
; CURRENT APPLICATION NUMBER: US/09/081,646
; CURRENT FILING DATE: 1998-05-20
; EARLIER APPLICATION NUMBER: 60/047,352
; EARLIER FILING DATE: 1997-05-21
; NUMBER OF SEQ ID NOS: 871
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 513
; LENGTH: 15
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-081-646-513
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Query Match          54.0%; Score 10.8; DB 1; Length 15;
Best Local Similarity 85.7%; Pred. No. 4.4;
Matches 12; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
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```
QY      4 CATGTCACATGGA 17
DB      1 CATGCCACATGGA 14
```

```
RESULT 5
US-09-374-704-12
; Sequence 12, Application US/09374704
; Patent No. 6958240
; GENERAL INFORMATION:
; APPLICANT: DERVAN, PETER B.
; APPLICANT: BAIRD, ELDON J.
; TITLE OF INVENTION: INHIBITION OF MAJOR GROOVE DNA BINDING
; FILE REFERENCE: 238/298
; CURRENT APPLICATION NUMBER: US/09/374,704
; CURRENT FILING DATE: 1999-08-12
; EARLIER APPLICATION NUMBER: PCT/US98/02684
; EARLIER FILING DATE: 1998-02-13
; EARLIER APPLICATION NUMBER: PCT/US97/03332
; EARLIER FILING DATE: 1997-02-20
; EARLIER APPLICATION NUMBER: PCT/US97/12722
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; EARLIER FILING DATE: 1997-07-21
; EARLIER APPLICATION NUMBER: 60/038,384
; EARLIER FILING DATE: 1997-02-14
; EARLIER APPLICATION NUMBER: 60/023,309
; EARLIER FILING DATE: 1996-07-31
; EARLIER APPLICATION NUMBER: 60/024,374
; EARLIER FILING DATE: 1996-08-01
; EARLIER APPLICATION NUMBER: 60/026,713
; EARLIER FILING DATE: 1996-09-25
; EARLIER APPLICATION NUMBER: 08/853,522
; EARLIER FILING DATE: 1997-05-08
; EARLIER APPLICATION NUMBER: 08/837,524
; EARLIER FILING DATE: 1997-04-21
; EARLIER APPLICATION NUMBER: 08/607,078
; EARLIER FILING DATE: 1996-02-26
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 12
; LENGTH: 13
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: Polyamide Motif
; US-09-374-704-12

Query Match          47.0%; Score 9.4; DB 1; Length 13;
Best Local Similarity 90.9%; Pred. No. 6.6;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      3 TCATGTCACA 13
Db      3 TCATGTCACA 13

RESULT 6
US-09-374-704-13/c
; Sequence 13, Application US/09374704
; Patent No. 6958240
; GENERAL INFORMATION:
; APPLICANT: DERVAN, PETER B.
; APPLICANT: BAIRD, ELDON J.
; TITLE OF INVENTION: INHIBITION OF MAJOR GROOVE DNA BINDING
; TITLE OF INVENTION: PROTEINS BY MODIFIED POLYAMIDES
; FILE REFERENCE: 238/298
; CURRENT APPLICATION NUMBER: US/09/374,704
; FILING DATE: 1999-08-12
; EARLIER APPLICATION NUMBER: PCT/US98/02684
; EARLIER FILING DATE: 1998-02-13
; EARLIER APPLICATION NUMBER: PCT/US97/03332
; EARLIER FILING DATE: 1997-02-20
; EARLIER APPLICATION NUMBER: PCT/US97/12722
; EARLIER FILING DATE: 1997-07-21
; EARLIER APPLICATION NUMBER: 60/038,384
; EARLIER FILING DATE: 1997-02-14
; EARLIER APPLICATION NUMBER: 60/023,309
; EARLIER FILING DATE: 1996-07-31
; EARLIER APPLICATION NUMBER: 60/024,374
; EARLIER FILING DATE: 1996-08-01
; EARLIER APPLICATION NUMBER: 60/026,713
; EARLIER FILING DATE: 1996-09-25
; EARLIER APPLICATION NUMBER: 08/853,522
; EARLIER FILING DATE: 1997-05-08
; EARLIER APPLICATION NUMBER: 08/837,524
; EARLIER FILING DATE: 1997-04-21
; EARLIER APPLICATION NUMBER: 08/607,078
; EARLIER FILING DATE: 1996-02-26
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 13
; LENGTH: 13
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:

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; OTHER INFORMATION: GCN4 binding molecule
; US-09-374-704-13

Query Match          47.0%; Score 9.4; DB 1; Length 13;
Best Local Similarity 90.9%; Pred. No. 6.6;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      3 TCATGTCACA 13
Db      11 TCATGTCACA 1

RESULT 7
US-08-441-887A-200/c
; Sequence 200, Application US/08441887A
; Patent No. 5837832
; GENERAL INFORMATION:
; APPLICANT: Chee, Mark
; APPLICANT: Cronin, Maureen T.
; APPLICANT: Fodor, Stephen P.A.
; APPLICANT: Huang, Xiaohua X.
; APPLICANT: Hubbell, Earl A.
; APPLICANT: Lipschutz, Robert J.
; APPLICANT: Lobban, Peter E.
; APPLICANT: Morris, Macdonald S.
; APPLICANT: Sheldon, Edward L.
; TITLE OF INVENTION: Arrays of Nucleic Acid Probes on
; TITLE OF INVENTION: Biological Chips
; NUMBER OF SEQUENCES: 360
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Center, 8th Floor
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94111
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/441,887A
; FILING DATE: 16-MAY-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/143,312
; FILING DATE: 26-OCT-1993
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/082,937
; FILING DATE: 25-JUN-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Liebeschuetz, Joseph O.
; REGISTRATION NUMBER: 37,505
; REFERENCE/DOCKET NUMBER: 018547-004160US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-326-2422
; TELEFAX: 650-326-2400
; INFORMATION FOR SEQ ID NO: 200:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 12 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (probe)
; US-08-441-887A-200

Query Match          45.0%; Score 9; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 6.8;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      12 CATGATGA 20

```

Db 11 CATGCATGCA 3

RESULT 8
US-08-030-335-10/C
Sequence 10, Application US/08030335

GENERAL INFORMATION:
PATENT NO. 5491073
APPLICANT: No. 5491073eborn, Mathews H
APPLICANT: De Boer, Gerben F
TITLE OF INVENTION: Cloning Of Chicken Anaemia DNA
NUMBER OF SEQUENCES: 11
CORRESPONDENCE ADDRESS:
ADDRESSEE: Cooper & Dunham
STREET: 30 Rockefeller Plaza
CITY: New York, New York
STATE: New York
COUNTRY: USA
ZIP: 10112

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.24
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/030,335
FILING DATE: 08-MAR-1993
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Moran, Thomas F
REGISTRATION NUMBER: 16,579
REFERENCE/DOCKET NUMBER: 43276
TELEPHONE: (212)-977-9550
TELEFAX: (212)-977-9809
TELEX: 422523 COOP UI
INFORMATION FOR SEQ ID NO: 10:

SEQUENCE CHARACTERISTICS:
LENGTH: 12 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear

MOLECULE TYPE: DNA (genomic)
US-08-030-335-10

Query Match 42.0%; Score 8.4; DB 1; Length 12;
Best Local Similarity 90.0%; Pred. No. 9.2;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 7 GGTCAATGG 16
Db 12 GGTCAATGG 3

RESULT 9
US-07-973-431B-3/C
Sequence 3, Application US/07973431B

GENERAL INFORMATION:
PATENT NO. 5652144
APPLICANT: Lu, Yunchen
APPLICANT: Haselcine, William A
TITLE OF INVENTION: YC1 Protein, Gene, And Uses Thereof
NUMBER OF SEQUENCES: 5
CORRESPONDENCE ADDRESS:
ADDRESSEE: David G. Conlin; Dike, Bronstein,
ADDRESSEE: Roberts & Cushman
STREET: 130 Water Street
CITY: Boston
STATE: MA
COUNTRY: USA
ZIP: 02109

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/973,431B
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Eisenstein, Ronald I
REGISTRATION NUMBER: 30628
REFERENCE/DOCKET NUMBER: 41968
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 523-3400
TELEFAX: (617) 523-6440
TELEX: 200291 STR UR

INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 12 base pairs
TYPE: nucleic acid
STRANDEDNESS: unknown
TOPOLOGY: unknown

US-07-973-431B-3

Query Match 42.0%; Score 8.4; DB 1; Length 12;
Best Local Similarity 90.0%; Pred. No. 9.2;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 7 GGTCAATGG 16
Db 12 GGTCAATGG 3

RESULT 10
US-08-122-433-26/C
Sequence 26, Application US/08122433

GENERAL INFORMATION:
PATENT NO. 5683985
APPLICANT: Chu, Barbara C.F.
APPLICANT: O'Neil, Leslie
TITLE OF INVENTION: OLIGONUCLEOTIDES AND
TITLE OF INVENTION: OLIGONUCLEOTIDES USEFUL AS DECOYS FOR PROTEINS WHICH
TITLE OF INVENTION: SELECTIVELY BIND TO DEFINED DNA SEQUENCES
NUMBER OF SEQUENCES: 47
CORRESPONDENCE ADDRESS:
ADDRESSEE: PRETTY, SCHROEDER, BRUGGEWANN & CLARK
STREET: 444 South Flower Street, Suite 2000
CITY: Los Angeles
STATE: California
COUNTRY: USA
ZIP: 90071

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/122,433
FILING DATE: 22-SEP-1993
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/687,337
FILING DATE: 18-APR-1991
ATTORNEY/AGENT INFORMATION:
NAME: Reiter, Stephen E.
REGISTRATION NUMBER: 31,192
REFERENCE/DOCKET NUMBER: P31 9308
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619-546-1995
TELEFAX: 619-546-9392

INFORMATION FOR SEQ ID NO: 26:
SEQUENCE CHARACTERISTICS:
LENGTH: 12 base pairs

TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: other nucleic acid
US-08-122-433-26

Query Match 42.0%; Score 8.4; DB 1; Length 12;
Best Local Similarity 90.0%; Pred. No. 9.2;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 7 GGTCACATGG 16
|||||
DB 12 GGTCACGTGG 3

RESULT 11
US-08-623-891-24/c
Sequence 24, Application US/08623891
Patent No. 5795778
GENERAL INFORMATION:
APPLICANT: Kenneth G. Draper
TITLE OF INVENTION: METHOD AND REAGENT FOR
TITLE OF INVENTION: INHIBITING HERPES SIMPLEX
NUMBER OF SEQUENCES: 115
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 611 West Sixth Street
CITY: Los Angeles
STATE: California
COUNTRY: USA
ZIP: 90017
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS (Version 5.0)
SOFTWARE: Wordperfect (Version 5.1)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/623,891
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/238,200
FILING DATE:
APPLICATION NUMBER: US/07/987,133
FILING DATE:
APPLICATION NUMBER: 07/882,921
FILING DATE: May 14, 1992
APPLICATION NUMBER: 07/948,359
FILING DATE: September 18, 1992
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 200/209
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 24:
SEQUENCE CHARACTERISTICS:
LENGTH: 12
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-623-891-24

Query Match 42.0%; Score 8.4; DB 1; Length 12;
Best Local Similarity 90.0%; Pred. No. 9.2;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 TCATGCTAC 12
|||||
DB 12 TCATGCTCAC 3

RESULT 12
US-08-480-020B-10/c
Sequence 10, Application US/08480020B
Patent No. 5932476
GENERAL INFORMATION:
APPLICANT: NOTEBORN, MATTHEUS H.M.
TITLE OF INVENTION: CLONING OF CHICKEN ANEMIA DNA
NUMBER OF SEQUENCES: 38
CORRESPONDENCE ADDRESS:
ADDRESSEE: RAE-VENTER LAW GROUP
STREET: 260 SHERIDAN AVENUE, SUITE 400
CITY: PALO ALTO
STATE: CALIFORNIA
COUNTRY: UNITED STATES OF AMERICA
ZIP: 94306
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/480,020B
FILING DATE: 07-JUN-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/030,335
FILING DATE: 08-MAR-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: WO PCT/NL91/00165
FILING DATE: 12-SEP-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: NL 9002008
FILING DATE: 12-SEP-1990
ATTORNEY/AGENT INFORMATION:
NAME: KUNG, VIOLA
REGISTRATION NUMBER: P41,131
REFERENCE/DOCKET NUMBER: VEOC.002.020US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (650)328-4400
TELEFAX: (650)328-4477
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 12 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-480-020B-10

Query Match 42.0%; Score 8.4; DB 1; Length 12;
Best Local Similarity 90.0%; Pred. No. 9.2;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 7 GGTCACATGG 16
|||||
DB 12 GGTCACGTGG 3

RESULT 13
US-08-910-618-10/c
Sequence 10, Application US/08910618
Patent No. 5958424
GENERAL INFORMATION:
APPLICANT: NOTEBORN, MATTHEUS H.M.
TITLE OF INVENTION: CLONING OF CHICKEN ANEMIA DNA
NUMBER OF SEQUENCES: 28
CORRESPONDENCE ADDRESS:
ADDRESSEE: RAE-VENTER LAW GROUP
STREET: 260 SHERIDAN AVENUE, SUITE 400

CITY: PALO ALTO
STATE: CALIFORNIA
COUNTRY: UNITED STATES OF AMERICA
ZIP: 94306
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/910,618
FILING DATE: 13-AUG-1997
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/484,939
FILING DATE: 07-JUN-1995
APPLICATION NUMBER: US 08/030,335
FILING DATE: 08-MAR-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: WO PCT/NL91/00165
FILING DATE: 12-SEP-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: NL 9002008
FILING DATE: 12-SEP-1990
ATTORNEY/AGENT INFORMATION:
NAME: Rae-Venter, Barbara
REGISTRATION NUMBER: 32,750
REFERENCE/DOCKET NUMBER: VEOC.002.01US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (650)328-4400
TELEFAX: (650)328-4477
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 12 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-910-618-10

Query Match 42.0%; Score 8.4; DB 1; Length 12;
Best Local Similarity 90.0%; Pred. No. 9.2;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 7 GGTCACATGG 16
DB 12 GGTCACGTGG 3

RESULT 14
US-09-105-515-2/C
Sequence 2, Application US/09105515
Patent No. 6113913
GENERAL INFORMATION:
APPLICANT: BROUGH, DOUGLAS E.
TITLE OF INVENTION: RECOMBINANT ADENOVIRUS
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSEE: LEYDIG, VOIT & MAYER, LTD.
STREET: TWO PRUDENTIAL PLAZA, SUITE 4900
CITY: CHICAGO
STATE: IL
COUNTRY: US
ZIP: 60601-6780
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/105,515
FILING DATE:
CLASSIFICATION:

ATTORNEY/AGENT INFORMATION:
NAME: KILYK JR., JOHN
REGISTRATION NUMBER: 30763
REFERENCE/DOCKET NUMBER: 83827
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312-616-5600
TELEFAX: 312-616-5700
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 12 base pairs
TYPE: nucleic acid
STRANDEDNESS: unknown
TOPOLOGY: unknown
MOLECULE TYPE: DNA (genomic)
US-09-105-515-2

Query Match 42.0%; Score 8.4; DB 1; Length 12;
Best Local Similarity 90.0%; Pred. No. 9.2;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 7 GGTCACATGG 16
DB 12 GGTCACGTGG 3

RESULT 15
US-08-910-322-10/C
Sequence 10, Application US/08910322
Patent No. 6238659
GENERAL INFORMATION:
APPLICANT: NOTEBOEN, MATHEUS H.M.
TITLE OF INVENTION: CLONING OF CHICKEN ANEMIA DNA
NUMBER OF SEQUENCES: 28
CORRESPONDENCE ADDRESS:
ADDRESSEE: RAE-VENTER LAW GROUP
STREET: 260 SHERIDAN AVENUE, SUITE 400
CITY: PALO ALTO
STATE: CALIFORNIA
COUNTRY: UNITED STATES OF AMERICA
ZIP: 94306
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/910,322
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/484,939
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: WO PCT/NL91/00165
FILING DATE: 12-SEP-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: NL 9002008
FILING DATE: 12-SEP-1990
ATTORNEY/AGENT INFORMATION:
NAME: Rae-Venter, Barbara
REGISTRATION NUMBER: 32,750
REFERENCE/DOCKET NUMBER: VEOC.002.01US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (650)328-4400
TELEFAX: (650)328-4477
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 12 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)

US-08-910-322-10

Query Match 42.0%; Score 8.4; DB 1; Length 12;
Best Local Similarity 90.0%; Pred. No. 9.2;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 7 GGTACATGG 16
DB 12 GGTACATGG 3

RESULT 16

US-08-679-493A-68/C
Sequence 68, Application US/08679493A
Patent No. 6303295
GENERAL INFORMATION:
APPLICANT: TAYLOR, Ethan W.
TITLE OF INVENTION: SELENOPROTEINS, CODING SEQUENCES AND METHODS
FILE REFERENCE: 55-95
CURRENT APPLICATION NUMBER: US/08/679,493A
CURRENT FILING DATE: 1996-07-12
PRIOR APPLICATION NUMBER: 60/001203
PRIOR FILING DATE: 1995-07-14
PRIOR APPLICATION NUMBER: 60/003,112
PRIOR FILING DATE: 1995-09-01
NUMBER OF SEQ ID NOS: 216
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 68
LENGTH: 12
TYPE: RNA
ORGANISM: Human immunodeficiency virus type 1
US-08-679-493A-68

Query Match 42.0%; Score 8.4; DB 1; Length 12;
Best Local Similarity 90.0%; Pred. No. 9.2;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 CTCATGCTCA 11
DB 11 CTCATGCTCA 2

RESULT 17

US-08-484-939A-10/C
Sequence 10, Application US/08484939A
Patent No. 6319693
GENERAL INFORMATION:
APPLICANT: NOTEBORN, MATHEUS H.M.
TITLE OF INVENTION: CLONING OF CHICKEN ANEMIA DNA
NUMBER OF SEQUENCES: 28
CORRESPONDENCE ADDRESS:
ADDRESSER: RAE-VENTER LAW GROUP
STREET: 260 SHERIDAN AVENUE, SUITE 400
CITY: PALO ALTO
STATE: CALIFORNIA
COUNTRY: UNITED STATES OF AMERICA
ZIP: 94306
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/484,939A
FILING DATE: 07-JUN-1995
CLASSIFICATION: 424
PRIOR APPLICATION NUMBER:
APPLICATION NUMBER: US 08/030,335
FILING DATE: 08-MAR-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: WO PCT/NL91/00165
FILING DATE: 12-SEP-1990

PRIOR APPLICATION DATA:

APPLICATION NUMBER: NL 9002008
FILING DATE: 12-SEP-1990
ATTORNEY/AGENT INFORMATION:
NAME: Rae-Venter, Barbara
REGISTRATION NUMBER: 32,750
REFERENCE/DOCKET NUMBER: VEOC.002.01US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (650)328-4400
TELEFAX: (650)328-4477
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 12 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-484-939A-10

Query Match 42.0%; Score 8.4; DB 1; Length 12;
Best Local Similarity 90.0%; Pred. No. 9.2;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 7 GGTACATGG 16
DB 12 GGTACATGG 3

RESULT 18

US-09-340-861-24/C
Sequence 24, Application US/09340861
Patent No. 6432704
GENERAL INFORMATION:
APPLICANT: Kenneth G. Draper
TITLE OF INVENTION: METHOD AND REAGENT FOR
TITLE OF INVENTION: INHIBITING HERPES SIMPLEX
TITLE OF INVENTION: VIRUS REPLICATION
NUMBER OF SEQUENCES: 115
CORRESPONDENCE ADDRESS:
ADDRESSER: Lyon & Lyon
STREET: 611 West Sixth Street
CITY: Los Angeles
STATE: California
COUNTRY: USA
ZIP: 90017
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 MB storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS (Version 5.0)
SOFTWARE: Wordperfect (Version 5.1)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/340,861
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/987,133
FILING DATE:
APPLICATION NUMBER: 07/882,921
FILING DATE: May 14, 1992
APPLICATION NUMBER: 07/948,359
FILING DATE: September 18, 1992
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 200/209
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 24:
SEQUENCE CHARACTERISTICS:
LENGTH: 12
TYPE: nucleic acid

STRANDEDNESS: single
TOPOLOGY: linear
US-09-340-861-24

Query Match 42.0%; Score 8.4; DB 1; Length 12;
Best Local Similarity 90.0%; Pred. No. 9.2;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 TCATGTCAC 12
|||||
Db 12 TCATGCCAC 3

RESULT 19
US-09-634-262-24/C
Sequence 24, Application US/09634262
Patent No. 6440719

GENERAL INFORMATION:
APPLICANT: Kenneth G. Draper
TITLE OF INVENTION: METHOD AND REAGENT FOR
TITLE OF INVENTION: INHIBITING HERPES SIMPLEX
NUMBER OF SEQUENCES: 115
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 611 West Sixth Street
CITY: Los Angeles
STATE: California
COUNTRY: USA
ZIP: 90017
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb storage
OPERATING SYSTEM: IBM P.C. DOS (Version 5.0)
SOFTWARE: Wordperfect (Version 5.1)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/634,262
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/987,133
FILING DATE:
APPLICATION NUMBER: 07/882,921
FILING DATE: May 14, 1992
APPLICATION NUMBER: 07/948,359
FILING DATE: September 18, 1992
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 200/209
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 24:
SEQUENCE CHARACTERISTICS:
LENGTH: 12
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-09-634-262-24

Query Match 42.0%; Score 8.4; DB 1; Length 12;
Best Local Similarity 90.0%; Pred. No. 9.2;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 TCATGTCAC 12
|||||
Db 12 TCATGCCAC 3

RESULT 20
US-09-748-044-2/C

Sequence 2, Application US/09748044

Patent No. 6458578
GENERAL INFORMATION:
APPLICANT: Brough, Douglas E.
APPLICANT: Kovsedl, Imre
TITLE OF INVENTION: Recombinant Cell Line
FILE REFERENCE: 207952
CURRENT APPLICATION NUMBER: US/09/748,044
CURRENT FILING DATE: 2000-12-22
PRIOR APPLICATION NUMBER: PCT/US99/14333
PRIOR FILING DATE: 1999-06-24
PRIOR APPLICATION NUMBER: US 09/105,515
PRIOR FILING DATE: 1998-06-26
NUMBER OF SEQ ID NOS: 4
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 2
TYPE: DNA
LENGTH: 12
ORGANISM: Adenovirus type 5
US-09-748-044-2

Query Match 42.0%; Score 8.4; DB 1; Length 12;
Best Local Similarity 90.0%; Pred. No. 9.2;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 7 GGTCACATCG 16
|||||
Db 12 GGTCACGTG 3

RESULT 21
US-09-384-472-10/C

Sequence 10, Application US/09384472
Patent No. 6509446
GENERAL INFORMATION:
APPLICANT: NOTEBORN, MATHEUS H.M.
APPLICANT: DE BOER, GERDEN F.
TITLE OF INVENTION: CLONING OF CHICKEN ANEMIA DNA
NUMBER OF SEQUENCES: 28
CORRESPONDENCE ADDRESS:
ADDRESSEE: RAE-VENTER LAW GROUP
STREET: 260 SHERIDAN AVENUE, SUITE 400
CITY: PALO ALTO
STATE: CALIFORNIA
COUNTRY: UNITED STATES OF AMERICA
ZIP: 94306
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/384,472
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/484,939
FILING DATE: 07-JUN-1995
APPLICATION NUMBER: US 08/030,335
FILING DATE: 08-MAR-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: WO PCT/NL91/00165
FILING DATE: 12-SEP-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: NL 9002008
FILING DATE: 12-SEP-1990
ATTORNEY/AGENT INFORMATION:
NAME: Rae-Venter, Barbara
REGISTRATION NUMBER: 32,750
REFERENCE/DOCKET NUMBER: VEOC.002.01US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (650) 328-4400
TELEFAX: (650) 328-4477

```

; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
;   LENGTH: 12 base pairs
;   TYPE: nucleic acid
;   STRANDEDNESS: single
;   TOPOLOGY: linear
;   MOLECULE TYPE: DNA (genomic)
US-09-384-472-10

Query Match      42.0%; Score 8.4; DB 1; Length 12;
Best Local Similarity 90.0%; Pred. No. 9.2;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      7 GGTCAATG 16
DB      12 GGTCACTG 3

RESULT 22
US-09-835-370-54
; Sequence 54, Application US/09835370
; Patent No. 6777544
; GENERAL INFORMATION:
; APPLICANT: UHLMANN, EUGEN
; APPLICANT: BREIPOHL, GERHARD
; APPLICANT: WILF, DAVID W
; TITLE OF INVENTION: POLYAMIDE NUCLEIC ACID DERIVATIVES AND AGENTS AND
; TITLE OF INVENTION: PROCESSES FOR PREPARING THEM
; FILE REFERENCE: 02481.1742 SEQUENCE LISTING
; CURRENT APPLICATION NUMBER: US/09/835,370
; CURRENT FILING DATE: 2001-04-17
; NUMBER OF SEQ ID NOS: 64
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 54
; LENGTH: 12
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: nucleotide
; OTHER INFORMATION: base sequence of PNA derivatives that bind to
; OTHER INFORMATION: viral and cellular targets
US-09-835-370-54

Query Match      42.0%; Score 8.4; DB 1; Length 12;
Best Local Similarity 90.0%; Pred. No. 9.2;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 CCTCATGTC 10
DB      2 CATCATGTC 11

RESULT 23
US-09-793-146-38
; Sequence 38, Application US/09793146
; Patent No. 6919441
; GENERAL INFORMATION:
; APPLICANT: UHLMANN, EUGEN
; APPLICANT: BREIPOHL, GERHARD
; APPLICANT: BREIPOHL, GERHARD
; TITLE OF INVENTION: POLYAMIDE-OLIGONUCLEOTIDE DERIVATIVES, THEIR
; TITLE OF INVENTION: PREPARATION AND USE
; FILE REFERENCE: 02481.1437-02
; CURRENT APPLICATION NUMBER: US/09/793,146
; CURRENT FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: P 44 08 528.1
; PRIOR FILING DATE: 1994-03-14
; PRIOR APPLICATION NUMBER: 08/402,838
; PRIOR FILING DATE: 1995-03-13
; NUMBER OF SEQ ID NOS: 70
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 38
; LENGTH: 12
; TYPE: DNA
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; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic PNA
US-09-793-146-38

Query Match      42.0%; Score 8.4; DB 1; Length 12;
Best Local Similarity 90.0%; Pred. No. 9.2;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 CCTCATGTC 10
DB      2 CATCATGTC 11

RESULT 24
US-09-793-146-48
; Sequence 48, Application US/09793146
; Patent No. 6919441
; GENERAL INFORMATION:
; APPLICANT: UHLMANN, EUGEN
; APPLICANT: BREIPOHL, GERHARD
; APPLICANT: BREIPOHL, GERHARD
; TITLE OF INVENTION: POLYAMIDE-OLIGONUCLEOTIDE DERIVATIVES, THEIR
; TITLE OF INVENTION: PREPARATION AND USE
; FILE REFERENCE: 02481.1437-02
; CURRENT APPLICATION NUMBER: US/09/793,146
; CURRENT FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: P 44 08 528.1
; PRIOR FILING DATE: 1994-03-14
; PRIOR APPLICATION NUMBER: 08/402,838
; PRIOR FILING DATE: 1995-03-13
; NUMBER OF SEQ ID NOS: 70
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 48
; LENGTH: 12
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic PNA
US-09-793-146-48

Query Match      42.0%; Score 8.4; DB 1; Length 12;
Best Local Similarity 90.0%; Pred. No. 9.2;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 CCTCATGTC 10
DB      2 CATCATGTC 11

RESULT 25
US-09-793-146-49/c
; Sequence 49, Application US/09793146
; Patent No. 6919441
; GENERAL INFORMATION:
; APPLICANT: UHLMANN, EUGEN
; APPLICANT: BREIPOHL, GERHARD
; APPLICANT: BREIPOHL, GERHARD
; TITLE OF INVENTION: POLYAMIDE-OLIGONUCLEOTIDE DERIVATIVES, THEIR
; TITLE OF INVENTION: PREPARATION AND USE
; FILE REFERENCE: 02481.1437-02
; CURRENT APPLICATION NUMBER: US/09/793,146
; CURRENT FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: P 44 08 528.1
; PRIOR FILING DATE: 1994-03-14
; PRIOR APPLICATION NUMBER: 08/402,838
; PRIOR FILING DATE: 1995-03-13
; NUMBER OF SEQ ID NOS: 70
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 49
; LENGTH: 12
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic PNA
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US-09-793-146-49

Query Match 42.0%; Score 8.4; DB 1; Length 12;
Best Local Similarity 90.0%; Pred. No. 9.2;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 CCTCATGTC 10
Db 11 CATCATGTC 2

Search completed: June 13, 2006, 15:51:50
Job time : 0.001 secs

GenCore version 5.1.9
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OM nucleic - nucleic search, using sw model

Run on: June 13, 2006, 15:50:13 ; Search time 0.001 Seconds
(Without alignments)
27.080 Million cell updates/sec

Title: US-10-719-370A-446
Perfect score: 20
Sequence: 1 cctcatggtcaccatgcatga 20

Scoring table: IDENTITY_NTC
Gapop 10.0 , Gapext 0.5

Searched: 37 seqs, 677 residues

Total number of hits satisfying chosen parameters: 74

Minimum DB seq length: 12
Maximum DB seq length: 50

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 37 summaries

Database : us-10-719-370a-446.sl.rnpbms*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	20	100.0	20	1 US-10-719-370A-446	Sequence 446, App
2	19	95.0	20	1 US-10-719-370A-141	Sequence 141, App
3	19	95.0	20	1 US-10-719-370A-447	Sequence 447, App
4	18	90.0	20	1 US-10-719-370A-445	Sequence 445, App
5	18	90.0	20	1 US-10-719-370A-452	Sequence 452, App
6	17	85.0	20	1 US-10-766-185-26	Sequence 26, Appl
7	17	85.0	20	1 US-10-719-370A-451	Sequence 451, App
8	16	84.0	20	1 US-10-719-370A-443	Sequence 443, App
9	16	80.0	20	1 US-10-719-370A-448	Sequence 448, App
10	15	79.0	20	1 US-10-719-370A-450	Sequence 450, App
11	14	72.0	19	1 US-10-310-914A-757115	Sequence 757115,
12	14	72.0	19	1 US-11-083-784-440242	Sequence 440242,
13	14	72.0	19	1 US-11-101-244-440242	Sequence 440242,
14	13	69.0	19	1 US-11-083-784-15285	Sequence 15285, A
15	13	69.0	19	1 US-11-083-784-144519	Sequence 144519,
16	13	69.0	19	1 US-11-083-784-1218947	Sequence 1218947,
17	13	69.0	19	1 US-11-101-244-15285	Sequence 15285, A
18	13	69.0	19	1 US-11-101-244-144519	Sequence 144519,
19	13	69.0	19	1 US-11-101-244-1218947	Sequence 1218947,
20	13	67.0	19	1 US-11-083-784-155627	Sequence 155627,
21	13	67.0	19	1 US-11-083-784-155645	Sequence 155645,
22	13	67.0	19	1 US-11-083-784-943972	Sequence 943972,
23	13	67.0	19	1 US-11-083-784-1009396	Sequence 1009396,
24	13	67.0	19	1 US-11-083-784-1224506	Sequence 1224506,
25	13	67.0	19	1 US-11-101-244-155627	Sequence 155627,
26	13	67.0	19	1 US-11-101-244-155645	Sequence 155645,
27	13	67.0	19	1 US-11-101-244-943972	Sequence 943972,
28	13	67.0	19	1 US-11-101-244-1009396	Sequence 1009396,
29	13	67.0	19	1 US-11-101-244-1224506	Sequence 1224506,
30	12	61.0	17	1 US-09-866-108-7612	Sequence 7612, Ap
31	12	61.0	17	1 US-10-723-361-7612	Sequence 7612, Ap
32	11	57.0	15	1 US-09-916-466-30	Sequence 30, Appl
33	11	57.0	15	1 US-10-277-494-30	Sequence 30, Appl

ALIGNMENTS

34	9.8	49.0	13	1	US-10-257-017B-228161	Sequence 228161,
C 35	9.8	49.0	13	1	US-10-257-017B-228162	Sequence 228162,
C 36	9.8	49.0	13	1	US-10-257-017B-245261	Sequence 245261,
C 37	9.8	49.0	13	1	US-10-257-017B-245262	Sequence 245262,

RESULT 1

US-10-719-370A-446
; Sequence 446, Application US/10719370A
; Publication No. US20040220393A1
; GENERAL INFORMATION:
; APPLICANT: Ward, Donna T.
; APPLICANT: Dobie, Kenneth W.
; APPLICANT: Marcussen, Eric G.
; APPLICANT: Freiler, Susan M.
; TITLE OF INVENTION: MODULATION OF HIF1A AND HIF2A EXPRESSION
; FILE REFERENCE: ISPT-1010
; CURRENT APPLICATION NUMBER: US/10/719,370A
; CURRENT FILING DATE: 2003-11-21
; PRIOR APPLICATION NUMBER: US 10/304,126
; PRIOR FILING DATE: 2002-11-23
; NUMBER OF SEQ ID NOS: 458
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 446
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
US-10-719-370A-446

Query Match 100.0%; Score 20; DB 1; Length 20;

Best local Similarity 100.0%; Pred. No. 2.6; Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCTCATGTCACATGATGA 20

DB 1 CCTCATGTCACATGATGA 20

RESULT 2
US-10-719-370A-141
; Sequence 141, Application US/10719370A
; Publication No. US20040220393A1
; GENERAL INFORMATION:
; APPLICANT: Ward, Donna T.
; APPLICANT: Dobie, Kenneth W.
; APPLICANT: Marcussen, Eric G.
; APPLICANT: Freiler, Susan M.
; TITLE OF INVENTION: MODULATION OF HIF1A AND HIF2A EXPRESSION
; FILE REFERENCE: ISPT-1010
; CURRENT APPLICATION NUMBER: US/10/719,370A
; CURRENT FILING DATE: 2003-11-21
; PRIOR APPLICATION NUMBER: US 10/304,126
; PRIOR FILING DATE: 2002-11-23
; NUMBER OF SEQ ID NOS: 458
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 141
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
US-10-719-370A-141

Query Match 95.0%; Score 19; DB 1; Length 20;
Best local Similarity 100.0%; Pred. No. 3.4;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCTCATGTCACATGATGA 19

Db 2 CCTCATGTCACATGATGA 20

RESULT 3
US-10-719-370A-447
; Sequence 447, Application US/10719370A
; Publication No. US20040220393A1
; GENERAL INFORMATION:
; APPLICANT: Ward, Donna T.
; APPLICANT: Dobie, Kenneth W.
; APPLICANT: Marcuseon, Eric G.
; APPLICANT: Freiler, Susan M.
; TITLE OF INVENTION: MODULATION OF HIF1a AND HIF2a EXPRESSION
; FILE REFERENCE: ISPT-1010
; CURRENT APPLICATION NUMBER: US/10/719,370A
; CURRENT FILING DATE: 2003-11-21
; PRIOR APPLICATION NUMBER: US 10/304,126
; PRIOR FILING DATE: 2002-11-23
; NUMBER OF SEQ ID NOS: 458
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 447
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
US-10-719-370A-447

Query Match 95.0%; Score 19; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 3.4;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 CTCATGTCACATGATGA 20
Db 1 CTCATGTCACATGATGA 19

RESULT 4
US-10-719-370A-445
; Sequence 445, Application US/10719370A
; Publication No. US20040220393A1
; GENERAL INFORMATION:
; APPLICANT: Ward, Donna T.
; APPLICANT: Dobie, Kenneth W.
; APPLICANT: Marcuseon, Eric G.
; APPLICANT: Freiler, Susan M.
; TITLE OF INVENTION: MODULATION OF HIF1a AND HIF2a EXPRESSION
; FILE REFERENCE: ISPT-1010
; CURRENT APPLICATION NUMBER: US/10/719,370A
; CURRENT FILING DATE: 2003-11-21
; PRIOR APPLICATION NUMBER: US 10/304,126
; PRIOR FILING DATE: 2002-11-23
; NUMBER OF SEQ ID NOS: 458
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 445
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
US-10-719-370A-445

Query Match 90.0%; Score 18; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.5;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 TCATGTCACATGATGA 20
Db 1 TCATGTCACATGATGA 18

RESULT 5

US-10-719-370A-452
; Sequence 452, Application US/10719370A
; Publication No. US20040220393A1
; GENERAL INFORMATION:
; APPLICANT: Ward, Donna T.
; APPLICANT: Dobie, Kenneth W.
; APPLICANT: Marcuseon, Eric G.
; APPLICANT: Freiler, Susan M.
; TITLE OF INVENTION: MODULATION OF HIF1a AND HIF2a EXPRESSION
; FILE REFERENCE: ISPT-1010
; CURRENT APPLICATION NUMBER: US/10/719,370A
; CURRENT FILING DATE: 2003-11-21
; PRIOR APPLICATION NUMBER: US 10/304,126
; PRIOR FILING DATE: 2002-11-23
; NUMBER OF SEQ ID NOS: 458
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 452
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct

Query Match 90.0%; Score 18; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 4.5;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 CCTCATGTCACATGATGA 20
Db 1 CCTCATGTCACATGATGA 20

RESULT 6
US-10-766-185-26
; Sequence 26, Application US/10766185
; Publication No. US20040152655A1
; GENERAL INFORMATION:
; APPLICANT: Yoon, Heejeong
; APPLICANT: Ahn, Chang Ho
; APPLICANT: Lee, Young Bok
; APPLICANT: Mao, Lingjun
; APPLICANT: Jiang, Xiaoming
; TITLE OF INVENTION: Antisense Oligonucleotides that inhibit expression of HIF-1
; FILE REFERENCE: REX 7034
; CURRENT APPLICATION NUMBER: US/10/766,185
; CURRENT FILING DATE: 2004-01-28
; NUMBER OF SEQ ID NOS: 130
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 26
; LENGTH: 20
; TYPE: DNA
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: antisense oligonucleotide
US-10-766-185-26

Query Match 85.0%; Score 17; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.8;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 CATGTCACATGATGA 20
Db 1 CATGTCACATGATGA 17

```
RESULT 7
US-10-719-370A-451
; Sequence 451, Application US/10719370A
; Publication No. US20040220393A1
; GENERAL INFORMATION:
; APPLICANT: Ward, Donna T.
; APPLICANT: Marcuseon, Eric G.
; APPLICANT: Freiler, Susan M.
; TITLE OF INVENTION: MODULATION OF HIF1A AND HIF2A EXPRESSION
; FILE REFERENCE: ISPT-1010
; CURRENT APPLICATION NUMBER: US/10/719,370A
; PRIOR FILING DATE: 2003-11-21
; PRIOR APPLICATION NUMBER: US 10/304,126
; NUMBER OF SEQ ID NOS: 458
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 451
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
; NAME/KEY: misc_feature
; LOCATION: (12)..(12)
; OTHER INFORMATION: n = Inosine
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (15)..(15)
; OTHER INFORMATION: n = pseudouridine
US-10-719-370A-451
```

```
Query Match      85.0%; Score 17; DB 1; Length 20;
Best Local Similarity 89.5%; Pred. No. 5.8;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      1 CCTCATGTCACATGATG 19
          |||||
DB      2 CCTCATGTCACATGATG 20
```

```
RESULT 8
US-10-719-370A-443
; Sequence 443, Application US/10719370A
; Publication No. US20040220393A1
; GENERAL INFORMATION:
; APPLICANT: Ward, Donna T.
; APPLICANT: Dobie, Kenneth W.
; APPLICANT: Marcuseon, Eric G.
; APPLICANT: Freiler, Susan M.
; TITLE OF INVENTION: MODULATION OF HIF1A AND HIF2A EXPRESSION
; FILE REFERENCE: ISPT-1010
; CURRENT APPLICATION NUMBER: US/10/719,370A
; PRIOR FILING DATE: 2003-11-21
; PRIOR APPLICATION NUMBER: US 10/304,126
; NUMBER OF SEQ ID NOS: 458
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 443
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
US-10-719-370A-443
```

```
Query Match      84.0%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 6.1;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      1 CCTCATGTCACATGATG 20
```

```
DB      1 CCTCATGTCACATGATG 20
          |||||
```

```
RESULT 9
US-10-719-370A-448
; Sequence 448, Application US/10719370A
; Publication No. US20040220393A1
; GENERAL INFORMATION:
; APPLICANT: Ward, Donna T.
; APPLICANT: Marcuseon, Eric G.
; APPLICANT: Freiler, Susan M.
; TITLE OF INVENTION: MODULATION OF HIF1A AND HIF2A EXPRESSION
; FILE REFERENCE: ISPT-1010
; CURRENT APPLICATION NUMBER: US/10/719,370A
; PRIOR FILING DATE: 2003-11-21
; PRIOR APPLICATION NUMBER: US 10/304,126
; NUMBER OF SEQ ID NOS: 458
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 448
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
US-10-719-370A-448
```

```
Query Match      80.0%; Score 16; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 7.5;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 CCTCATGTCACATG 16
          |||||
DB      5 CCTCATGTCACATG 20
```

```
RESULT 10
US-10-719-370A-450
; Sequence 450, Application US/10719370A
; Publication No. US20040220393A1
; GENERAL INFORMATION:
; APPLICANT: Ward, Donna T.
; APPLICANT: Dobie, Kenneth W.
; APPLICANT: Marcuseon, Eric G.
; APPLICANT: Freiler, Susan M.
; TITLE OF INVENTION: MODULATION OF HIF1A AND HIF2A EXPRESSION
; FILE REFERENCE: ISPT-1010
; CURRENT APPLICATION NUMBER: US/10/719,370A
; PRIOR FILING DATE: 2003-11-21
; PRIOR APPLICATION NUMBER: US 10/304,126
; NUMBER OF SEQ ID NOS: 458
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 450
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
US-10-719-370A-450
```

```
Query Match      79.0%; Score 15.8; DB 1; Length 20;
Best Local Similarity 89.5%; Pred. No. 7.9;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      1 CCTCATGTCACATGATG 19
          |||||
DB      2 CCTCATGTCACATGATG 20
```

```
RESULT 11
```

US-10-310-914A-757115/C
; Sequence 757115, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shlier, Kivazat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; PRIOR FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1389402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 757115
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-757115

Query Match 72.0%; Score 14.4; DB 1; Length 19;
Best Local Similarity 93.8%; Pred. No. 10;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 CCTGATGTCACATGG 16
| | | | | | | | | | | | | | | | | |
DB 18 CCTGATGTCACATGG 3

RESULT 12
US-11-083-784-440242
; Sequence 440242, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 440242
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-440242

Query Match 72.0%; Score 14.4; DB 1; Length 19;
Best Local Similarity 75.0%; Pred. No. 10;
Matches 12; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 5 ATGTCATCATGATGA 20
| | | | | | | | | | | | | | | | | |
DB 4 AAGGUCACAGGAUGA 19

RESULT 13
US-11-101-244-440242
; Sequence 440242, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia

; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 440242
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-440242

Query Match 72.0%; Score 14.4; DB 1; Length 19;
Best Local Similarity 75.0%; Pred. No. 10;
Matches 12; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 5 ATGTCATCATGATGA 20
| | | | | | | | | | | | | | | | | |
DB 4 AAGGUCACAGGAUGA 19

RESULT 14
US-11-083-784-15285/C
; Sequence 15285, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 15285
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-15285

Query Match 69.0%; Score 13.8; DB 1; Length 19;
Best Local Similarity 88.2%; Pred. No. 12;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 3 TCATGTCATCATGATG 19
| | | | | | | | | | | | | | | | | |
DB 18 TCATGTCATCATGATG 2

RESULT 15
US-11-083-784-144519
; Sequence 144519, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.


```
/ APPLICANT: Khvorova, Anastasia
/ APPLICANT: Reynolds, Angela
/ APPLICANT: Leake, Devin
/ APPLICANT: Marshall, William
/ APPLICANT: Scaringe, Stephen
/ TITLE OF INVENTION: Functional and Hyperfunctional siRNA
/ FILE REFERENCE: 13499US
/ CURRENT APPLICATION NUMBER: US/11/083,784
/ CURRENT FILING DATE: 2005-03-18
/ PRIOR APPLICATION NUMBER: US/10/714,333
/ PRIOR FILING DATE: 2003-11-14
/ PRIOR APPLICATION NUMBER: 60/502,050
/ PRIOR FILING DATE: 2003-09-10
/ PRIOR APPLICATION NUMBER: 60/426,137
/ PRIOR FILING DATE: 2002-11-14
/ NUMBER OF SEQ ID NOS: 1591911
/ SOFTWARE: Proprietary
/ SEQ ID NO 144519
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Homo sapiens
US-11-083-784-144519
```

```
Query Match          69.0%; Score 13.8; DB 1; Length 19;
Best Local Similarity 70.6%; Pred. No. 12;
Matches 12; Conservative 3; Mismatches 2; Indels 0; Gaps 0;
```

```
Qy 1 CCTCATGTCACATGGA 17
    |||:|||||:|||||
Db 2 CAUCAGGUGACAUUGA 18
```

```
RESULT 16
US-11-083-784-1218947
/ Sequence 1218947, Application US/11083784
/ Publication No. US20050245475A1
/ GENERAL INFORMATION:
/ APPLICANT: Dharmoon, Inc.
/ APPLICANT: Khvorova, Anastasia
/ APPLICANT: Reynolds, Angela
/ APPLICANT: Leake, Devin
/ APPLICANT: Marshall, William
/ APPLICANT: Scaringe, Stephen
/ TITLE OF INVENTION: Functional and Hyperfunctional siRNA
/ FILE REFERENCE: 13499US
/ CURRENT APPLICATION NUMBER: US/11/083,784
/ CURRENT FILING DATE: 2005-03-18
/ PRIOR APPLICATION NUMBER: US/10/714,333
/ PRIOR FILING DATE: 2003-11-14
/ PRIOR APPLICATION NUMBER: 60/502,050
/ PRIOR FILING DATE: 2003-09-10
/ PRIOR APPLICATION NUMBER: 60/426,137
/ PRIOR FILING DATE: 2002-11-14
/ NUMBER OF SEQ ID NOS: 1591911
/ SOFTWARE: Proprietary
/ SEQ ID NO 1218947
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Homo sapiens
US-11-083-784-1218947
```

```
Query Match          69.0%; Score 13.8; DB 1; Length 19;
Best Local Similarity 64.7%; Pred. No. 12;
Matches 11; Conservative 4; Mismatches 2; Indels 0; Gaps 0;
```

```
Qy 1 CCTCATGTCACATGGA 17
    |||:|||||:|||||
Db 3 CCTCATGUGACAUUGA 19
```

```
RESULT 17
US-11-101-244-15285/c
/ Sequence 15285, Application US/11101244
```

```
/ Publication No. US20050246794A1
/ GENERAL INFORMATION:
/ APPLICANT: Dharmoon, Inc.
/ APPLICANT: Khvorova, Anastasia
/ APPLICANT: Reynolds, Angela
/ APPLICANT: Leake, Devin
/ APPLICANT: Marshall, William
/ APPLICANT: Scaringe, Stephen
/ TITLE OF INVENTION: Functional and Hyperfunctional siRNA
/ FILE REFERENCE: 13499US
/ CURRENT APPLICATION NUMBER: US/11/101,244
/ CURRENT FILING DATE: 2005-04-07
/ PRIOR APPLICATION NUMBER: 60/502,050
/ PRIOR FILING DATE: 2003-09-10
/ PRIOR APPLICATION NUMBER: 60/426,137
/ PRIOR FILING DATE: 2002-11-14
/ NUMBER OF SEQ ID NOS: 1591911
/ SOFTWARE: Proprietary
/ SEQ ID NO 15285
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Homo sapiens
US-11-101-244-15285
```

```
Query Match          69.0%; Score 13.8; DB 1; Length 19;
Best Local Similarity 88.2%; Pred. No. 12;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
Qy 3 TCATGTCACATGATG 19
    |||:|||||:|||||
Db 18 TCATGTCACATGATG 2
```

```
RESULT 18
US-11-101-244-144519
/ Sequence 144519, Application US/11101244
/ Publication No. US20050246794A1
/ GENERAL INFORMATION:
/ APPLICANT: Dharmoon, Inc.
/ APPLICANT: Khvorova, Anastasia
/ APPLICANT: Reynolds, Angela
/ APPLICANT: Leake, Devin
/ APPLICANT: Marshall, William
/ APPLICANT: Scaringe, Stephen
/ TITLE OF INVENTION: Functional and Hyperfunctional siRNA
/ FILE REFERENCE: 13499US
/ CURRENT APPLICATION NUMBER: US/11/101,244
/ CURRENT FILING DATE: 2005-04-07
/ PRIOR APPLICATION NUMBER: 60/502,050
/ PRIOR FILING DATE: 2003-09-10
/ PRIOR APPLICATION NUMBER: 60/426,137
/ PRIOR FILING DATE: 2002-11-14
/ NUMBER OF SEQ ID NOS: 1591911
/ SOFTWARE: Proprietary
/ SEQ ID NO 144519
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Homo sapiens
US-11-101-244-144519
```

```
Query Match          69.0%; Score 13.8; DB 1; Length 19;
Best Local Similarity 70.6%; Pred. No. 12;
Matches 12; Conservative 3; Mismatches 2; Indels 0; Gaps 0;
```

```
Qy 1 CCTCATGTCACATGGA 17
    |||:|||||:|||||
Db 2 CAUCAGGUGACAUUGA 18
```

```
RESULT 19
US-11-101-244-1218947
/ Sequence 1218947, Application US/11101244
/ Publication No. US20050246794A1
```

```

; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1218947
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1218947

Query Match          69.0%; Score 13.4; DB 1; Length 19;
Best Local Similarity 64.7%; Pred. No. 12;
Matches 11; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

Qy      1 CCTCATGTCATGATGA 17
        |||:|:|:|:|:|:|
Db      3 CCUCAGUGGACAUUGA 19
```

```

RESULT 20
US-11-083-784-155627/c
; Sequence 155627, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 155627
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-155627

Query Match          67.0%; Score 13.4; DB 1; Length 19;
Best Local Similarity 93.3%; Pred. No. 13;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```

RESULT 21
US-11-083-784-155645/c
; Sequence 155645, Application US/11083784
```

```

; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 155645
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-155645

Query Match          67.0%; Score 13.4; DB 1; Length 19;
Best Local Similarity 93.3%; Pred. No. 13;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      6 TGGTCACATGATGA 20
        |||:|:|:|:|:|:|
Db      19 TGGTTACATGATGA 5
```

```

RESULT 22
US-11-083-784-943972
; Sequence 943972, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 943972
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-943972
```

```

Query Match          67.0%; Score 13.4; DB 1; Length 19;
Best Local Similarity 66.7%; Pred. No. 13;
Matches 10; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

Qy      6 TGGTCACATGATGA 20
        |||:|:|:|:|:|:|
Db      5 UGGUCCGAGAUGA 19
```

RESULT 23
US-11-083-784-1009396/c
; Sequence 1009396, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1009396
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1009396

Query Match 67.0%; Score 13.4; DB 1; Length 19;
Best Local Similarity 93.3%; Pred. No. 13;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 CCTCATGTCATG 15
DB 15 CCTCAAGTCACATG 1

RESULT 24
US-11-083-784-1224506
; Sequence 1224506, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1224506
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1224506

Query Match 67.0%; Score 13.4; DB 1; Length 19;
Best Local Similarity 66.7%; Pred. No. 13;
Matches 10; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 6 TGTGCATGATGATGA 20
DB 6 TGTGCATGATGATGA 20

Db 2 UGGUACAUCAUGA 16
RESULT 25
US-11-101-244-155627/c
; Sequence 155627, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 155627
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-155627

Query Match 67.0%; Score 13.4; DB 1; Length 19;
Best Local Similarity 93.3%; Pred. No. 13;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 6 TGTGCATGATGATGA 20
DB 17 TGTTCATGATGATGA 3

RESULT 26
US-11-101-244-155645/c
; Sequence 155645, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 155645
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-155645

Query Match 67.0%; Score 13.4; DB 1; Length 19;
Best Local Similarity 93.3%; Pred. No. 13;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 6 TGTGCATGATGATGA 20
DB 19 TGTTCATGATGATGA 5

RESULT 27

```

US-11-101-244-943972
; Sequence 943972, Application US//11101244
; Publication No. US2005024679A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US//11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proplotetary
; SEQ ID NO 943972
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-943972

```

Query Match	67.0%;	Score 13.4;	DB 1;	Length 19;
Best Local Similarity	66.7%;	Pred. No. 13;		
Matches 10;	Conservative 4;	Mismatches 1;	Indels 0;	Gaps 0

Qy	6	TGTCACATGATGA	20
	:	: :	
Db	5	UGGUCCCAUGGAUGA	19

RESULT 26

```

US-11-101244-1009396/C
: Sequence 1009396, Application US/11101244
: Publication No. US20050246794N1
: GENERAL INFORMATION:
: APPLICANT: Dharmacon, Inc.
: APPLICANT: Khvorova, Anastasia
: APPLICANT: Reynolds, Angela
: APPLICANT: Leake, Devin
: APPLICANT: Marshall, William
: APPLICANT: Scaringe, Stephen
: TITLE OF INVENTION: Functional and Hyperfunctional siRNA
: FILE REFERENCE: 134.99US
: CURRENT APPLICATION NUMBER: US/11/101,244
: CURRENT FILING DATE: 2005-04-07
: PRIOR APPLICATION NUMBER: 60/502,050
: PRIOR FILING DATE: 2003-09-10
: PRIOR APPLICATION NUMBER: 60/426,137
: PRIOR FILING DATE: 2002-11-14
: NUMBER OF SEQ ID NOS: 1591911
: SOFTWARE: Proprietary
: SEQ ID NO 1009396
:
: LENGTH: 19
:
: TYPE: RNA
:
: ORGANISM: Homo sapiens
US-11-101-244-1009396

```

Query Match	67.0%	Score 13.4;	DB 1;	Length 19;
Best Local Similarity	93.3%	Pred. No. 13;		
Matches 14; Conservative	0;	Mismatches 1;	Indels 0;	Gaps 0

```

QY      1 CCTCATGCTCACATG 15
          |||||
Db      15 CCTCAAGGTCACATG 1

```

RESULT 29

```

US-11-101244-1224506
; Sequence 1224506, Application US/11101244
; Publication No. US20050246794N1
; GENERAL INFORMATION:
; APPLICANT: Dharmaco, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proptidetry
; SEQ ID NO 1224506
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1224506

```

Query Match	67.0%	Score 13.4	DB 1	Length 19
Best Local Similarity	66.7%	Pred. No. 13		
Matches 10; Conservative	4	Mismatches	1	Indels 0; Gaps 0

```

QY      6 TGGTCACATGGATGA 20
          :||: |||: |||: ||
Db      2 UGUUACAUGGAUGA 16

```

RESULT 30

US-09-866-108-7612/c
Sequence 7612, Application US/09866108
Patent No. US20020048800A1
GENERAL INFORMATION:
APPLICANT: GU, Yizhong
APPLICANT: JI, Yonggang
APPLICANT: PENN, Sharon G.
APPLICANT: HANZEL, David K.
APPLICANT: RANK, David R.
APPLICANT: CHEN, Wensheng
APPLICANT: SHANNON, Mark
TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
FILE REFERENCE: AEO/MCA-7
CURRENT APPLICATION NUMBER: US/09/866,108
CURRENT FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: US 60/207,456
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: GB 24263.6
PRIOR FILING DATE: 2000-10-04
PRIOR APPLICATION NUMBER: US 60/236,359
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: PCT/US01/00666
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00667
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00664
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00669
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00665
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00668
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00663
PRIOR FILING DATE: 2001-01-30

```
; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 60/266,860
; PRIOR FILING DATE: 2001-02-05
; NUMBER OF SEQ ID NOS: 15752
; SOFTWARE: Aecomica Sequence Listing Engine
; SEQ ID NO 7612
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108-7612

Query Match          61.0%; Score 12.2; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 15;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY      1 CCTCATGTCACATGGA 17
Db      17 CCTCAAGTCACAGGTA 1

RESULT 31
US-10-723-361-7612/c
; Sequence 7612, Application US/10723361
; Publication No. US20040137589A1
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: UT, Yonggang
; APPLICANT: PENN, Sharon G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: HUMAN MYOSIN-LIKE POLYPEPTIDE EXPRESSED PREDOMINANTLY IN HEART AN
; FILE REFERENCE: PB0105
; CURRENT APPLICATION NUMBER: US/10/723,361
; CURRENT FILING DATE: 2003-11-26
; PRIOR APPLICATION NUMBER: US 09/866,108
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; Remaining prior Application data removed - See file wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15755
; SOFTWARE: Aecomica Sequence Listing Engine
; SEQ ID NO 7612
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-723-361-7612

Query Match          61.0%; Score 12.2; DB 1; Length 17;

; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 60/266,860
; PRIOR FILING DATE: 2001-02-05
; NUMBER OF SEQ ID NOS: 15752
; SOFTWARE: Aecomica Sequence Listing Engine
; SEQ ID NO 7612
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108-7612

Query Match          61.0%; Score 12.2; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 15;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY      1 CCTCATGTCACATGGA 17
Db      17 CCTCAAGTCACAGGTA 1

RESULT 32
US-09-916-466-30
; Sequence 30, Application US/09916466
; Publication No. US20030064945A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Akhtar, Saghir
; APPLICANT: MCSWIGEN, Jim
; TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or conditions Relat
; FILE REFERENCE: MHR00-958-J (400/032)
; CURRENT APPLICATION NUMBER: US/09/916,466
; CURRENT FILING DATE: 2001-07-25
; NUMBER OF SEQ ID NOS: 446
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 30
; LENGTH: 15
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-916-466-30

Query Match          57.0%; Score 11.4; DB 1; Length 15;
Best Local Similarity 61.5%; Pred. No. 15;
Matches 8; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY      3 TCATGTCACATG 15
Db      1 UC AUGGUCAAUG 13

RESULT 33
US-10-277-494-30
; Sequence 30, Application US/10277494
; Publication No. US20030186909A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: MCSWIGEN, Jim
; TITLE OF INVENTION: Nucleic Acid Treatment of Diseases or conditions Related To Level
; FILE REFERENCE: MHR00-958-K (400/064)
; CURRENT APPLICATION NUMBER: US/10/277,494
; CURRENT FILING DATE: 2002-10-21
; NUMBER OF SEQ ID NOS: 446
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 30
; LENGTH: 15
; TYPE: RNA
; ORGANISM: Homo sapiens
US-10-277-494-30

Query Match          57.0%; Score 11.4; DB 1; Length 15;
Best Local Similarity 61.5%; Pred. No. 15;
Matches 8; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY      3 TCATGTCACATG 15
Db      1 UC AUGGUCAAUG 13

RESULT 34
US-10-257-017B-228161
; Sequence 228161, Application US/10257017B
; Publication No. US20040241651A1
; GENERAL INFORMATION:
; APPLICANT: Alexander Olek
```

```

; APPLICANT: Christian Piepenbrock
; APPLICANT: Kurt Berlin
; TITLE OF INVENTION: Detection of single nucleotide polymorphisms [SNPs] and cytosine
; FILE REFERENCE: E01/1193/WO
; CURRENT APPLICATION NUMBER: US/10/257,017B
; PRIOR FILING DATE: 2002-10-07
; PRIOR APPLICATION NUMBER: DE 10019173.8
; NUMBER OF SEQ ID NOS: 382046
; SEQ ID NO 228161
; LENGTH: 13
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Oligonucleotide for detection of SNP TSC0055641
US-10-257-017B-228161

Query Match          49.0%; Score 9.8; DB 1; Length 13;
Best Local Similarity 84.6%; Pred. No. 17;
Matches 11; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      8 GTCACATGATGA 20
        |||||
Db      1 GTTACGTGATGA 13

RESULT 35
US-10-257-017B-228162/c
; Sequence 228162, Application US/10257017B
; Publication No. US20040241651A1
; GENERAL INFORMATION:
; APPLICANT: Alexander Olek
; APPLICANT: Christian Piepenbrock
; APPLICANT: Kurt Berlin
; TITLE OF INVENTION: Detection of single nucleotide polymorphisms [SNPs] and cytosine
; FILE REFERENCE: E01/1193/WO
; CURRENT APPLICATION NUMBER: US/10/257,017B
; PRIOR FILING DATE: 2002-10-07
; PRIOR APPLICATION NUMBER: DE 10019173.8
; NUMBER OF SEQ ID NOS: 382046
; SEQ ID NO 228162
; LENGTH: 13
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Oligonucleotide for detection of SNP TSC0055641
US-10-257-017B-228162

Query Match          49.0%; Score 9.8; DB 1; Length 13;
Best Local Similarity 84.6%; Pred. No. 17;
Matches 11; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      8 GTCACATGATGA 20
        |||||
Db      13 GTTACGTGATGA 1

RESULT 36
US-10-257-017B-245261
; Sequence 245261, Application US/10257017B
; Publication No. US20040241651A1
; GENERAL INFORMATION:
; APPLICANT: Alexander Olek
; APPLICANT: Christian Piepenbrock
; APPLICANT: Kurt Berlin
; TITLE OF INVENTION: Detection of single nucleotide polymorphisms [SNPs] and cytosine
; FILE REFERENCE: E01/1193/WO
; CURRENT APPLICATION NUMBER: US/10/257,017B
; CURRENT FILING DATE: 2002-10-07
```

```

; PRIOR APPLICATION NUMBER: DE 10019173.8
; PRIOR FILING DATE: 2000-04-07
; NUMBER OF SEQ ID NOS: 382046
; SEQ ID NO 245261
; LENGTH: 13
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Oligonucleotide for detection of SNP TSC0059887
US-10-257-017B-245261

Query Match          49.0%; Score 9.8; DB 1; Length 13;
Best Local Similarity 84.6%; Pred. No. 17;
Matches 11; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      6 TGGTACATGAT 18
        |||||
Db      1 TGGTAACGTGAT 13

RESULT 37
US-10-257-017B-245262/c
; Sequence 245262, Application US/10257017B
; Publication No. US20040241651A1
; GENERAL INFORMATION:
; APPLICANT: Alexander Olek
; APPLICANT: Christian Piepenbrock
; APPLICANT: Kurt Berlin
; TITLE OF INVENTION: Detection of single nucleotide polymorphisms [SNPs] and cytosine
; FILE REFERENCE: E01/1193/WO
; CURRENT APPLICATION NUMBER: US/10/257,017B
; PRIOR FILING DATE: 2002-10-07
; PRIOR APPLICATION NUMBER: DE 10019173.8
; NUMBER OF SEQ ID NOS: 382046
; SEQ ID NO 245262
; LENGTH: 13
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Oligonucleotide for detection of SNP TSC0059887
US-10-257-017B-245262

Query Match          49.0%; Score 9.8; DB 1; Length 13;
Best Local Similarity 84.6%; Pred. No. 17;
Matches 11; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      6 TGGTACATGAT 18
        |||||
Db      13 TGGTAACGTGAT 1

Search completed: June 13, 2006, 15:50:13
Job time : 0.001 secs
```

C 34	10.9	54.0	15	1	ABK32412	Human colon cancer
C 35	10.4	52.0	14	1	AD082962	Extended hairpin t
C 36	10.4	52.0	14	1	AD082964	Extended hairpin t
C 37	10	50.0	14	1	AA136745	Antisense oligonuc
C 38	10	50.0	14	1	AAH89017	Human polymorphic
C 39	9.8	49.0	13	1	ABH45285	Oligonucleotide SE
C 40	9.8	49.0	13	1	ABH45284	Oligonucleotide SE
C 41	9.8	49.0	13	1	ABH28185	Oligonucleotide SE
C 42	9.8	49.0	13	1	ABH28184	Oligonucleotide SE
C 43	9.8	49.0	14	1	AAH70553	Oligonucleotide SE
C 44	9.4	47.0	13	1	AAH19072	Sequence of probe
C 45	9.4	47.0	13	1	AD224722	Human PPAR-gamma-3
C 46	9.4	47.0	13	1	AED86939	Human SNP detectid
C 47	9.4	47.0	13	1	AED86939	Polyamide-binding
C 48	9	45.0	12	1	AA088597	Polyamide-binding
C 49	9	45.0	12	1	AAH32269	Human mitochondria
C 50	8.8	44.0	12	1	AAH23540	Random primed reve
C 51	8.8	44.0	12	1	ABH82120	Antibacterial pepet
C 52	8.8	44.0	12	1	ABH82120	Oligonucleotide pr
C 53	8.8	44.0	12	1	ADH11578	Oligonucleotide pr
C 54	8.4	42.0	12	1	AA024034	sRNA production-r-
C 55	8.4	42.0	12	1	AA030497	Herpesvirus inhibi
C 56	8.4	42.0	12	1	AA052966	Adenovirus major l
C 57	8.4	42.0	12	1	AAZ59598	Herpes simplex viru
C 58	8.4	42.0	12	1	AAA01086	Adenovirus Ads maj
C 59	8.4	42.0	12	1	ABH41815	Fragment of a plas
C 60	8.4	42.0	12	1	ABH35107	Oligonucleotide pr
C 61	8.4	42.0	12	1	ABH72389	Oligonucleotide pr
C 62	8.4	42.0	12	1	ABH64083	Oligonucleotide pr
C 63	8.4	42.0	12	1	ABH44751	Oligonucleotide pr
C 64	8.4	42.0	12	1	ABH67680	Oligonucleotide pr
C 65	8.4	42.0	12	1	ABH08303	Oligonucleotide pr
C 66	8.4	42.0	12	1	ABH29750	Oligonucleotide pr
C 67	8.4	42.0	12	1	AAH49257	PNA-forming oligon
C 68	8.4	42.0	12	1	AAH49256	PNA-forming oligon
C 69	8.4	42.0	12	1	AAH49260	PNA-forming oligon
C 70	8.4	42.0	12	1	AAH49261	PNA-forming oligon
C 71	8.4	42.0	12	1	AAH49259	PNA-forming oligon
C 72	8.4	42.0	12	1	AAH49258	PNA-forming oligon
C 73	8.4	42.0	12	1	ABH49278	Human protective D
C 74	8.4	42.0	12	1	ABH72560	Human OP41 gene, e
C 75	8.4	42.0	12	1	ABH011332	HIV-1 rev oligonuc
C 76	8.4	42.0	12	1	ABH98610	Modified peptide n
C 77	8.4	42.0	12	1	ABH97503	Peptide nucleic ac
C 78	8.4	42.0	12	1	ADH56294	Mouse SLC26A antia
C 79	8.4	42.0	12	1	ADQ29965	Rat VRL1 exon 1d tr
C 80	8.4	42.0	12	1	AAEF0873	MLTfr/USF promoter

```

XX 04-NOV-2004.
XX
XX 21-NOV-2003; 2003US-00719370.
XX
XX 23-NOV-2002; 2002US-00304126.
XX
XX (WARD/) WARD D T.
XX (DOB/) DOBIE K W.
XX (MARC/) MARCUSSEN E G.
XX (FRIE/) FRIER S M.
XX
XX Ward DT, Dobie KW, Marcusson EG, Freier SM;
XX WPI; 2004-774955/76.
XX
XX New antisense compound which inhibits the expression of hypoxia-inducible
XX factor 1 alpha (HIF1 alpha) and/or HIF2 alpha, useful for treating
XX hyperproliferative disorder, e.g. cancer carrying a p53 mutation.
XX
XX Claim 92; SEQ ID NO 446; 195bp; English.
XX
XX The present invention relates to antisense compounds targeted to nucleic
XX acids encoding hypoxia-inducible factor 1 alpha (HIF1alpha) and/or
XX hypoxia-inducible factor 2 alpha (HIF2alpha). The antisense compound
XX comprises an antisense oligonucleotide that specifically hybridises with
XX the nucleic acid and inhibits the expression of HIF1alpha and/or
XX HIF2alpha. The antisense oligonucleotide is a chimeric oligonucleotide.
XX The antisense oligonucleotide comprises at least one modified
XX internucleoside linkage, preferably a phosphorothioate linkage. It also
XX comprises at least one modified sugar moiety, preferably a 2'-O-
XX methoxyethyl (2'-MOE) sugar moiety. The antisense oligonucleotide further
XX comprises at least one modified nucleobase, preferably a 5-
XX methylcytosine. The antisense oligonucleotides are useful for the
XX treatment of diseases such as hyperproliferative disorders, e.g. cancer,
XX preferably a cancer carrying a p53 mutation, or an angiogenic disorder
XX that affects the eye. The compound is also useful for treating tumours,
XX hyperplasias, pulmonary fibrosis, angiogenesis, psoriasis,
XX atherosclerosis and smooth muscle cell proliferation in the blood vessels
XX in drug discovery and target validation, and can be utilised for
XX diagnostics, therapeutics, prophylaxis and as research reagents and kits.
XX The present sequence represents an oligonucleotide used in the examples
XX of the present invention.
XX
XX SQ Sequence 20 BP; 5 A; 5 C; 5 G; 5 T; 0 U; 0 Other;
XX
XX Query Match 100.0%; Score 20; DB 1; Length 20;
XX Best Local Similarity 100.0%; Pred. No. 1.7;
XX Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX QY 1 CCTCATGTCACATGATGA 20
XX ||||||||||||||||
XX Db 1 CCTCATGTCACATGATGA 20
XX
XX RESULT 2
XX ADT78876
XX ID ADT78876 standard; DNA; 20 BP.
XX
XX AC ADT78876;
XX
XX XX 27-JAN-2005 (first entry)
XX
XX Antisense oligonucleotide (ISIS 330448) for human HIF1alpha.
XX
XX Antisense therapy; human; hypoxia-inducible factor 1 alpha;
XX hypoxia-inducible factor 2 alpha; HIF1alpha; HIF2alpha;
XX hyperproliferative disorder; cancer; p53; angiogenic disorder;
XX eye disorder; tumour; hyperplasias; pulmonary fibrosis; angiogenesis;
XX psoriasis; atherosclerosis; smooth muscle cell proliferation;
XX blood vessel; restenosis; angioplasty; cyclostatic; angiogenesis;
XX ophthalmological; antiinflammatory; respiratory; vasotrophic; ss.

```

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XX OS Homo sapiens.
XX
XX PN US2004220393-A1.
XX
XX 04-NOV-2004.
XX
XX 21-NOV-2003; 2003US-00719370.
XX
XX 23-NOV-2002; 2002US-00304126.
XX
XX (WARD/) WARD D T.
XX (DOB/) DOBIE K W.
XX (MARC/) MARCUSSEN E G.
XX (FRIE/) FRIER S M.
XX
XX Ward DT, Dobie KW, Marcusson EG, Freier SM;
XX WPI; 2004-774955/76.
XX
XX New antisense compound which inhibits the expression of hypoxia-inducible
XX factor 1 alpha (HIF1 alpha) and/or HIF2 alpha, useful for treating
XX hyperproliferative disorder, e.g. cancer carrying a p53 mutation.
XX
XX Claim 92; SEQ ID NO 447; 195bp; English.
XX
XX The present invention relates to antisense compounds targeted to nucleic
XX acids encoding hypoxia-inducible factor 1 alpha (HIF1alpha) and/or
XX hypoxia-inducible factor 2 alpha (HIF2alpha). The antisense compound
XX comprises an antisense oligonucleotide that specifically hybridises with
XX the nucleic acid and inhibits the expression of HIF1alpha and/or
XX HIF2alpha. The antisense oligonucleotide is a chimeric oligonucleotide.
XX The antisense oligonucleotide comprises at least one modified
XX internucleoside linkage, preferably a phosphorothioate linkage. It also
XX comprises at least one modified sugar moiety, preferably a 2'-O-
XX methoxyethyl (2'-MOE) sugar moiety. The antisense oligonucleotide further
XX comprises at least one modified nucleobase, preferably a 5-
XX methylcytosine. The antisense oligonucleotides are useful for the
XX treatment of diseases such as hyperproliferative disorders, e.g. cancer,
XX preferably a cancer carrying a p53 mutation, or an angiogenic disorder
XX that affects the eye. The compound is also useful for treating tumours,
XX hyperplasias, pulmonary fibrosis, angiogenesis, psoriasis,
XX atherosclerosis and smooth muscle cell proliferation in the blood vessels
XX in drug discovery and target validation, and can be utilised for
XX diagnostics, therapeutics, prophylaxis and as research reagents and kits.
XX The present sequence represents an oligonucleotide used in the examples
XX of the present invention.
XX
XX SQ Sequence 20 BP; 5 A; 4 C; 6 G; 5 T; 0 U; 0 Other;
XX
XX Query Match 95.0%; Score 19; DB 1; Length 20;
XX Best Local Similarity 100.0%; Pred. No. 2.4;
XX Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX QY 2 CTCATGTCACATGATGA 20
XX ||||||||||||||||
XX Db 1 CTCATGTCACATGATGA 19
XX
XX RESULT 3
XX ADT78571
XX ID ADT78571 standard; DNA; 20 BP.
XX
XX AC ADT78571;
XX
XX XX 27-JAN-2005 (first entry)
XX
XX HIF1alpha cDNA, antisense oligonucleotide ISIS #298697.
XX
XX Antisense therapy; human; hypoxia-inducible factor 1 alpha;
XX hypoxia-inducible factor 2 alpha; HIF1alpha; HIF2alpha;
XX hyperproliferative disorder; cancer; p53; angiogenic disorder;

```


KM eye disorder; tumour; hyperplasia; pulmonary fibrosis; angiogenesis;
 KM psoriasis; atherosclerosis; smooth muscle cell proliferation;
 KM blood vessel; restenosis; angioplasty; cyostatic; angiogenesis;
 KM ophthalmological; antiinflammatory; respiratory; vasotropic; mouse; rat;
 KM phosphorothioate; ss.
 XX
 OS Homo sapiens.
 OS Mus musculus.
 OS Rattus sp.
 XX
 XX Key Location/Qualifiers
 FT modified_base 1..20
 FT /*tag= b
 FT /mod_base= OTHER
 FT /note= "phosphorothioate backbone. All cytidines are 5-methylcytidines"
 FT 1..5
 FT /*tag= a
 FT /mod_base= OTHER
 FT /note= "2'-O-Methoxyethyl (2'-MOE) nucleotides"
 FT 16..20
 FT /*tag= c
 FT /mod_base= OTHER
 FT /note= "2'-O-Methoxyethyl (2'-MOE) nucleotides"
 XX
 XX US2004220393-A1.
 PD 04-NOV-2004.
 XX
 XX 21-NOV-2003; 2003US-00719370.
 XX
 XX 23-NOV-2002; 2002US-00304126.
 XX
 XX (WARD/) WARD D T.
 PA (DOB/) DOBIE K W.
 PA (MARC/) MARCUSON E G.
 PA (FRET/) FREIER S M.
 XX
 XX Ward DT, Dobie KM, Marcusson EG, Freier SM,
 PI WPI, 2004-774955/76.
 DR
 XX
 PT New antisense compound which inhibits the expression of hypoxia-inducible
 PT factor 1 alpha (HIF1 alpha) and/or HIF2 alpha, useful for treating
 PT hyperproliferative disorder, e.g. cancer carrying a p53 mutation.
 XX
 XX Claim 27; SEQ ID NO 141; 195pp; English.
 PS
 XX The present invention relates to antisense compounds targeted to nucleic
 CC acids encoding hypoxia-inducible factor 1 alpha (HIF1alpha) and/or
 CC hypoxia-inducible factor 2 alpha (HIF2alpha). The antisense compound
 CC comprises an antisense oligonucleotide that specifically hybridizes with
 CC the nucleic acid and inhibits the expression of HIF1alpha and/or
 CC HIF2alpha. The antisense oligonucleotide is a chimeric oligonucleotide.
 CC The antisense oligonucleotide comprises at least one modified
 CC internucleoside linkage, preferably a phosphorothioate linkage. It also
 CC comprises at least one modified sugar moiety, preferably a 2'-O-
 CC methoxyethyl (2'-MOE) sugar moiety. The antisense oligonucleotide further
 CC comprises at least one modified nucleobase, preferably a 5-
 CC methylcytosine. The antisense oligonucleotides are useful for the
 CC treatment of diseases such as hyperproliferative disorders, e.g. cancer,
 CC preferably a cancer carrying a p53 mutation, or an angiogenic disorder,
 CC that affects the eye. The compound is also useful for treating tumours,
 CC hyperplasias, pulmonary fibrosis, angiogenesis, psoriasis,
 CC atherosclerosis and smooth muscle cell proliferation in the blood vessels
 CC such as stenosis or restenosis following angioplasty. It is also useful
 CC in drug discovery and target validation, and can be utilized for
 CC diagnostics, therapeutics, prophylaxis and as research reagents and kits.
 CC The present sequence represents an antisense oligonucleotide used in the
 CC examples of the present invention.
 CC
 CC Sequence 20 BP; 4 A; 5 G; 5 G; 6 T; 0 U; 0 Other;

Query Match 95.0%; Score 19; DB 1; Length 20;
 Best Local Similarity 100.0%; Pred. No. 2.4;
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Oy 1 CCTCATGTCACATGATG 19
 Db 2 CCTCATGTCACATGATG 20
 XX
 XX RESULT 4
 XX ADT78881
 XX ID ADT78881 standard; DNA; 20 BP.
 XX
 XX AC ADT78881;
 XX
 XX DT 27-JAN-2005 (first entry)
 XX
 XX Antisense oligonucleotide (ISIS 337224) for human HIF1alpha/HIF2alpha.
 XX
 XX KM Antisense therapy; human; hypoxia-inducible factor 1 alpha;
 KM hypoxia-inducible factor 2 alpha; HIF1alpha; HIF2alpha;
 KM hyperproliferative disorder; cancer; p53; angiogenic disorder;
 KM eye disorder; tumour; hyperplasia; pulmonary fibrosis; angiogenesis;
 KM psoriasis; atherosclerosis; smooth muscle cell proliferation;
 KM blood vessel; restenosis; angioplasty; cyostatic; angiogenesis;
 KM ophthalmological; antiinflammatory; respiratory; vasotropic; ss.
 KM
 OS Homo sapiens.
 OS
 XX
 XX Key Location/Qualifiers
 FH modified_base 11
 FT /*tag= a
 FT /mod_base= 1
 FT 14
 FT /*tag= b
 FT /mod_base= OTHER
 FT /note= "OTHER= Pseudouridine"
 FT
 XX
 XX US2004220393-A1.
 PN
 XX
 XX 04-NOV-2004.
 PD
 XX
 XX 21-NOV-2003; 2003US-00719370.
 XX
 XX 23-NOV-2002; 2002US-00304126.
 XX
 XX (WARD/) WARD D T.
 PA (DOB/) DOBIE K W.
 PA (MARC/) MARCUSON E G.
 PA (FRET/) FREIER S M.
 XX
 XX Ward DT, Dobie KM, Marcusson EG, Freier SM,
 PI WPI, 2004-774955/76.
 DR
 XX
 PT New antisense compound which inhibits the expression of hypoxia-inducible
 PT factor 1 alpha (HIF1 alpha) and/or HIF2 alpha, useful for treating
 PT hyperproliferative disorder, e.g. cancer carrying a p53 mutation.
 XX
 XX Example 30; SEQ ID NO 452; 195pp; English.
 PS
 XX The present invention relates to antisense compounds targeted to nucleic
 CC acids encoding hypoxia-inducible factor 1 alpha (HIF1alpha) and/or
 CC hypoxia-inducible factor 2 alpha (HIF2alpha). The antisense compound
 CC comprises an antisense oligonucleotide that specifically hybridizes with
 CC the nucleic acid and inhibits the expression of HIF1alpha and/or
 CC HIF2alpha. The antisense oligonucleotide is a chimeric oligonucleotide.
 CC The antisense oligonucleotide comprises at least one modified
 CC internucleoside linkage, preferably a phosphorothioate linkage. It also
 CC comprises at least one modified sugar moiety, preferably a 2'-O-
 CC methoxyethyl (2'-MOE) sugar moiety. The antisense oligonucleotide further
 CC comprises at least one modified nucleobase, preferably a 5-
 CC methylcytosine. The antisense oligonucleotides are useful for the

CC fully defined sequence comprising 20 bp (SEQ ID NO. 2, 5'
CC aatggcaccagctctccaa 3' and SEQ ID NO. 4, 5' ggagctaccctcccaatc 3',
CC respectively). The compounds are useful for inhibiting the expression of
CC HIF-1 and inducing the cytotoxicity in several cancer cells. The
CC antisense compounds are also useful for preventing or delaying infection,
CC inflammation, or tumor formation. This sequence represents a human HIF-1
CC antisense oligonucleotide.
XX
SQ Sequence 20 BP; 6 A; 3 C; 6 G; 5 T; 0 U; 0 Other;
Query Match 85.0%; Score 17; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.1;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 4 CATGTCACATGATGA 20
DB 1 CATGTCACATGATGA 17
RESULT 7
ADT78880
ID ADT78880 standard; DNA; 20 BP.
XX
AC ADT78880;
XX
DT 27-JAN-2005 (first entry)
XX
DE Antisense oligonucleotide (ISIS 337223) for human HIF1alpha/HIF2alpha.
XX
KW Antisense therapy; human; hypoxia-inducible factor 1 alpha;
KW hypoxia-inducible factor 2 alpha; HIF1alpha; HIF2alpha;
KW hyperproliferative disorder; cancer; p53; angiogenic disorder;
KW eye disorder; tumor; hyperplasia; pulmonary fibrosis; angiogenesis;
KW psoriasis; atherosclerosis; smooth muscle cell proliferation;
KW blood vessel; restenosis; angioplasty; cyostatic; angiogenesis;
KW ophthalmological; antiinflammatory; respiratory; vasotropic; ss.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT modified_base 12
FT /*tag= a
FT /mod_base= i
FT modified_base 15
FT /*tag= b
FT /mod_base= OTHER
FT /note= "OTHER= Pseudouridine"
XX
PN US2004220393-A1.
XX
PD 04-NOV-2004.
XX
XX 21-NOV-2003; 2003US-00719370.
XX
XX 23-NOV-2002; 2002US-00304126.
XX
PA (WARD/) WARD D T.
PA (DOB1/) DOBIE K W.
PA (MARC/) MARCUSON E G.
PA (FREI/) FREIER S M.
XX
XX Ward DT, Dobie KW, Marcusson EG, Freier SM;
XX WPI; 2004-774955/76.
XX
XX New antisense compound which inhibits the expression of hypoxia-inducible
XX factor 1 alpha (HIF1 alpha) and/or HIF2 alpha, useful for treating
XX hyperproliferative disorder, e.g. cancer carrying a p53 mutation.
PS Example 30; SEQ ID NO 451; 195bp; English.
XX
XX The present invention relates to antisense compounds targeted to nucleic
XX acids encoding hypoxia-inducible factor 1 alpha (HIF1alpha) and/or

CC hypoxia-inducible factor 2 alpha (HIF2alpha). The antisense compound
CC comprises an antisense oligonucleotide that specifically hybridizes with
CC the nucleic acid and inhibits the expression of HIF1alpha and/or
CC HIF2alpha. The antisense oligonucleotide is a chimeric oligonucleotide.
CC The antisense oligonucleotide comprises at least one modified
CC internucleoside linkage, preferably a phosphorothioate linkage. It also
CC comprises at least one modified sugar moiety, preferably a 2'-O-
CC methoxyethyl (2'-MOE) sugar moiety. The antisense oligonucleotide further
CC comprises at least one modified nucleobase, preferably a 5-
CC methylcytosine. The antisense oligonucleotides are useful for the
CC treatment of diseases such as hyperproliferative disorders, e.g. cancer,
CC preferably a cancer carrying a p53 mutation, or an angiogenic disorder
CC that affects the eye. The compound is also useful for treating tumors,
CC hyperplasias, pulmonary fibrosis, angiogenesis, psoriasis,
CC atherosclerosis and smooth muscle cell proliferation in the blood vessels
CC such as stenosis or restenosis following angioplasty. It is also useful
CC in drug discovery and target validation, and can be utilized for
CC diagnostics, therapeutics, prophylaxis and as research reagents and kits.
CC The present sequence represents an oligonucleotide used in the examples
CC of the present invention.
XX
SQ Sequence 20 BP; 3 A; 5 C; 5 G; 5 T; 0 U; 2 Other;
Query Match 85.0%; Score 17; DB 1; Length 20;
Best Local Similarity 89.5%; Pred. No. 5.1;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 1 CCTCATGTCACATGATG 19
DB 2 CCTCATGTCACATGATG 20
RESULT 8
ADT78872
ID ADT78872 standard; DNA; 20 BP.
XX
AC ADT78872;
XX
DT 27-JAN-2005 (first entry)
XX
DE Antisense oligonucleotide (ISIS 330460) for human HIF2alpha.
XX
KW Antisense therapy; human; hypoxia-inducible factor 1 alpha;
KW hypoxia-inducible factor 2 alpha; HIF1alpha; HIF2alpha;
KW hyperproliferative disorder; cancer; p53; angiogenic disorder;
KW eye disorder; tumor; hyperplasia; pulmonary fibrosis; angiogenesis;
KW psoriasis; atherosclerosis; smooth muscle cell proliferation;
KW blood vessel; restenosis; angioplasty; cyostatic; angiogenesis;
KW ophthalmological; antiinflammatory; respiratory; vasotropic; ss.
XX
OS Homo sapiens.
XX
PN US2004220393-A1.
XX
PD 04-NOV-2004.
XX
XX 21-NOV-2003; 2003US-00719370.
XX
XX 23-NOV-2002; 2002US-00304126.
XX
PA (WARD/) WARD D T.
PA (DOB1/) DOBIE K W.
PA (MARC/) MARCUSON E G.
PA (FREI/) FREIER S M.
XX
XX Ward DT, Dobie KW, Marcusson EG, Freier SM;
XX WPI; 2004-774955/76.
XX
XX New antisense compound which inhibits the expression of hypoxia-inducible
XX factor 1 alpha (HIF1 alpha) and/or HIF2 alpha, useful for treating
XX hyperproliferative disorder, e.g. cancer carrying a p53 mutation.

PS Claim 92; SEQ ID NO 443; 195pp; English.

CC The present invention relates to antisense compounds targeted to nucleic
CC acids encoding hypoxia-inducible factor 1 alpha (HIF1alpha) and/or
CC hypoxia-inducible factor 2 alpha (HIF2alpha). The antisense compound
CC comprises an antisense oligonucleotide that specifically hybridizes with
CC the nucleic acid and inhibits the expression of HIF1alpha and/or
CC HIF2alpha. The antisense oligonucleotide is a chimeric oligonucleotide.
CC The antisense oligonucleotide comprises at least one modified
CC internucleoside linkage, preferably a phosphorothioate linkage. It also
CC comprises at least one modified sugar moiety, preferably a 2'-O-
CC methoxyethyl (2'-MOE) sugar moiety. The antisense oligonucleotide further
CC comprises at least one modified nucleobase, preferably a 5-
CC methylcytosine. The antisense oligonucleotides are useful for the
CC treatment of diseases such as hyperproliferative disorders, e.g. cancer,
CC preferably a cancer carrying a p53 mutation, or an angiogenic disorder
CC that affects the eye. The compound is also useful for treating tumours,
CC hyperplasias, pulmonary fibrosis, angiodysplasias, psoriasis,
CC atherosclerosis and smooth muscle cell proliferation in the blood vessels
CC such as stenosis or restenosis following angioplasty. It is also useful
CC in drug discovery and target validation, and can be utilized for
CC diagnostics, therapeutics, prophylaxis and as research reagents and kits.
CC The present sequence represents an oligonucleotide used in the examples
CC of the present invention.

SQ Sequence 20 BP; 4 A; 5 C; 7 G; 4 T; 0 U; 0 Other;

Query Match	84.0 %	Score 16.8	DB 1	Length 20
Best Local Similarity	90.0 %	Pred. No. 5.5		
Matches 18; Conservative	0	Mismatches 2	Indels 0	Gaps 0

Qy 1 CCTCATGTCACATGATGA 20
|||
Db 1 CCTCATGTCGACAGGATGA 20

RESULT 9
ADT78877
ID ADT78877 standard; DNA; 20 BP.

AC ADT78877;

DT 27-JAN-2005 (first entry)

DE Antisense oligonucleotide (ISIS 330452) for human HIF1alpha.

KM Antisense therapy; human; hypoxia-inducible factor 1 alpha;
KM hypoxia-inducible factor 2 alpha; HIF1alpha; HIF2alpha;
KM hyperproliferative disorder; cancer; p53; angiogenic disorder;
KM eye disorder; tumour; hyperplasia; pulmonary fibrosis; angiogenesis;
KM psoriasis; atherosclerosis; smooth muscle cell proliferation;
KM blood vessel; restenosis; angioplasty; cytostatic; angiogenesis;
KM ophthalmological; antiinflammation; respiratory; vasotropic; ss.

OS Homo sapiens.

PN US2004220393-A1.

PD 04-NOV-2004.

PF 21-NOV-2003; 2003US-00719370.

PR 23-NOV-2002; 2002US-00304126.

PA (WARD/) WARD D T.

PA (MARC/) MARCUSSON E G.

XX

XX

XX

PT New antisense compound which inhibits the expression of hypoxia-inducible factor 1 alpha (HIF1 alpha) and/or HIF2 alpha, useful for treating hyperproliferative disorder, e.g. cancer carrying a p53 mutation.

PS Claim 92; SEQ ID NO 448; 195pp; English.

CC The present invention relates to antisense compounds targeted to nucleic
CC acids encoding hypoxia-inducible factor 1 alpha (HIF1alpha) and/or
CC hypoxia-inducible factor 2 alpha (HIF2alpha). The antisense compound
CC comprises an antisense oligonucleotide that specifically hybridises with
CC the nucleic acid and inhibits the expression of HIF1alpha and/or
CC HIF2alpha. The antisense oligonucleotide is a chimeric oligonucleotide.
CC The antisense oligonucleotide comprises at least one modified
CC internucleoside linkage, preferably a phosphorothioate linkage. It also
CC comprises at least one modified sugar moiety, preferably a 2'-O-
CC methoxyethyl (2'-MOE) sugar moiety. The antisense oligonucleotide further
CC comprises at least one modified nucleobase, preferably a 5-
CC methylcytosine. The antisense oligonucleotides are useful for the
CC treatment of diseases such as hyperproliferative disorders, e.g. cancer,
CC preferably a cancer carrying a p53 mutation, or an angiogenic disorder
CC that affects the eye. The compound is also useful for treating tumours,
CC hyperplasia, pulmonary fibrosis, angiogenesis, psoriasis,
CC atherosclerosis and smooth muscle cell proliferation in the blood vessels
CC such as stenosis or restenosis following angioplasty. It is also useful
CC in drug discovery and target validation, and can be utilised for
CC diagnostics, therapeutics, prophylaxis and as research reagents and kits.
CC The present sequence represents an oligonucleotide used in the examples
CC of the present invention.

Sequence 20 BP; 4 A; 5 C; 4 G; 7 T; 0 U; 0 Other;

Query Match:	80.0%;	Score 16;	DB 1;	Length 20;
Best Local Similarity	100.0%;	Pred. No. 7.3;		
Matches 16; Conservative	0;	Mismatches	0;	Gaps 0

QY	1	CCTCATGTCACATGG	16
Db	5	CCTCATGTCACATGG	20

RESULT 10
ADT78879

ID ADT78879 standard; DNA; 20 BP.

AC ADT78879;

DT 27-JAN-2005 (first entry)

DE Antisense oligonucleotide (ISIS 326743) for human HIF2alpha.

KM Antisense therapy; human; hypoxia-inducible factor 1, alpha;
 KM hypoxia-inducible factor 2, alpha; HIF1alpha; HIF2alpha;
 KM hyperproliferative disorder; cancer; p53; angiogenic disorder;
 KM eye disorder; tumor; hyperplasia; pulmonary fibrosis; angiogenesis
 KM psoriasis; atherosclerosis; smooth muscle cell proliferation;
 KM blood vessel; restenosis; angioplasty; cysticostic; angiogenesis;
 KM ophthalmological; antiinflammatory; respiratory; vasotropic; ss.

Os Homo sapiens.

PN US2004220393-A1.

PD 04-NOV-2004.

PF 21-NOV-2003; 2003US-00719370.

PR 23-NOV-2002; 2002US-00304126

PA (WARD/) WARD D T.

PA (MARC/) MARCUSSON E G

XX

PI Ward DT, Dobie KM, Marcusson EG, Freier SM;
XX WPI; 2004-774955/76.
XX
XX New antisense compound which inhibits the expression of hypoxia-inducible
PT factor 1 alpha (HIF1 alpha) and/or HIF2 alpha, useful for treating
PT hyperproliferative disorder, e.g. cancer carrying a p53 mutation.
XX
PS Claim 92; SEQ ID NO 450; 195bp; English.
XX
XX The present invention relates to antisense compounds targeted to nucleic
CC acids encoding hypoxia-inducible factor 1 alpha (HIF1alpha) and/or
CC hypoxia-inducible factor 2 alpha (HIF2alpha). The antisense compound
CC comprises an antisense oligonucleotide that specifically hybridizes with
CC the nucleic acid and inhibits the expression of HIF1alpha and/or
CC HIF2alpha. The antisense oligonucleotide is a chimeric oligonucleotide.
CC The antisense oligonucleotide comprises at least one modified
CC internucleoside linkage, preferably a phosphorothioate linkage. It also
CC comprises at least one modified sugar moiety, preferably a 2'-O-
CC methoxyethyl (2'-MOE) sugar moiety. The antisense oligonucleotide further
CC comprises at least one modified nucleobase, preferably a 5-
CC methylcytosine. The antisense oligonucleotides are useful for the
CC treatment of diseases such as hyperproliferative disorders, e.g. cancer,
CC preferably a cancer carrying a p53 mutation, or an angiogenic disorder
CC that affects the eye. The compound is also useful for treating tumours,
CC hyperplasias, pulmonary fibrosis, angiogenesis, psoriasis,
CC atherosclerosis and smooth muscle cell proliferation in the blood vessels
CC such as stenosis or restenosis following angioplasty. It is also useful
CC in drug discovery and target validation, and can be utilized for
CC diagnostics, therapeutics, prophylaxis and as research reagents and kits.
CC The present sequence represents an oligonucleotide used in the examples
CC of the present invention.
XX
SQ Sequence 20 BP; 3 A; 5 C; 7 G; 5 T; 0 U; 0 Other;

Query Match 79.0%; Score 15.8; DB 1; Length 20;
Best Local Similarity 89.5%; Pred. No. 7.9;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 CCTCATGTCACATGATG 19
|||
DB 2 CCTCATGTCACATGATG 20

RESULT 11

ID AAV13322 standard; DNA; 19 BP.
XX
XX AAV13322;

XX 14-MAY-1998 (first entry)
XX
XX Sense primer Exon 4 for human 5-lipoxygenase gene.

XX Inflammatory disease; polymorphisms; 5-lipoxygenase; asthma;
KW ulcerative colitis; bronchitis; sinusitis; psoriasis; rhinitis;
KW arthritis; diagnosis; treatment; PCR primer; ss.

XX Synthetic.
XX Homo sapiens.

XX WO9742347-A2.
XX
XX 13-NOV-1997.

XX 29-APR-1997; 97WO-US007137.
XX
XX 06-MAY-1996; 96US-0016890P.
PR 25-APR-1997; 97US-00846020.

XX (BGM) BRIGHAM & WOMENS HOSPITAL.
XX
XX Drazen JM, In K, Asano K, Beier D, Grobholz J;

XX WPI; 1997-558997/51.
XX
XX Classifying patients with inflammatory disease, specifically asthma -
PT according to polymorphisms in 5-lipoxygenase gene regulatory region, e.g.
PT to identify candidates for lipoxygenase inhibitor treatment.
XX
PS Example 1; Page 19; 56pp; English.
XX

XX The present sequence was used in the development of a novel method for
CC classifying patients suffering from an inflammatory disease. The method
CC comprises identifying in DNA from at least 1 patient a sequence
CC polymorphism, as compared with the normal 5-lipoxygenase (5-LOX) gene
CC (AAT88431), in a 5-LOX regulatory gene sequence. The method can be
CC applied to subjects with asthma, ulcerative colitis, bronchitis,
CC sinusitis, psoriasis, allergic and non-allergic rhinitis, lupus or
CC rheumatoid arthritis. Specifically it can be used to diagnose asthma or
CC susceptibility to disease, identify treatments suitable for individual
CC patients or assess the likely success of treatment
XX

SQ Sequence 19 BP; 4 A; 4 C; 5 G; 6 T; 0 U; 0 Other;

Query Match 74.0%; Score 14.8; DB 1; Length 19;
Best Local Similarity 88.9%; Pred. No. 10;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 CTCATGTCACATGATG 19
|||
DB 2 CTCATGTCACATGATG 19

RESULT 12

ID ADZ58131 standard; RNA; 19 BP.
XX
XX ADZ58131;

XX 30-JUN-2005 (first entry)
XX
XX Antisense siRNA oligo that modulates human HIF1 expression Seq 259.

XX ss; short interfering RNA; siRNA; gene silencing; RNA interference;
KW hypoxia inducible factor 1; cancer; hyperproliferation;
KW macular degeneration; diabetic retinopathy; cytostatic; ophthalmological;
KW antidiabetic; antisense.

XX Homo sapiens.
XX
XX WO2005035759-A2.

XX 21-APR-2005.
XX
XX 20-AUG-2004; 2004WO-US027294.

XX 20-AUG-2003; 2003US-0496655P.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.

PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.

PR 13-FEB-2004; 2004US-00780447.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 54US-09997777.

PR 24-MAY-2004; 54US-09996666.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.

XX Usman N, Mcswiggen J;
XX
XX WPI; 2005-306364/31.

XX New chemically synthesized double stranded short interfering nucleic acid
PT molecule that directs cleavage of a hypoxia inducible factor 1 RNA via

PT RNA interference (RNAi), useful for modulating HIF1, its expression or
 PT activity.
 XX
 XX
 PS Claim 33; SEQ ID NO 259; 1899p; English.
 CC This invention relates to a novel chemically synthesized double stranded
 CC short interfering nucleic acid strand (siNA). Specifically, it refers to
 CC siNAs that direct cleavage of a hypoxia inducible factor 1 (HIF1) RNA via
 CC RNA interference (RNAi). In particular, the siNAs may include short
 CC interfering RNA (siRNA), double-stranded RNA (dsRNA), micro-RNA (miRNA)
 CC and short hairpin RNA (shRNA) molecules that are capable of mediating
 CC RNAi. The present invention describes a sense strand of a double-stranded
 CC siNA that comprises a nucleotide sequence that is complementary to HIF1
 CC RNA or a portion thereof, and where a second strand is the complementary
 CC antisense siNA strand. Note that the sense region is connected to the
 CC antisense region via a polynucleotide linker molecule. Accordingly, these
 CC siNAs are useful in providing compositions for the treatment of traits,
 CC diseases and conditions that respond to modulation of HIF1 expression,
 CC namely cancer and proliferative conditions including macular
 CC degeneration, diabetic retinopathy and other conditions associated with
 CC hypoxia inducible proliferation. As such, these compositions exhibit
 CC cytostatic, ophthalmological and antidiabetic activities. This
 CC oligonucleotide sequence is an antisense siRNA strand that targets human
 CC HIF1 RNA to modulate expression given in an exemplification of the
 CC invention.
 XX
 XX
 SQ Sequence 19 BP; 7 A; 2 C; 6 G; 0 T; 4 U; 0 Other;
 Query Match 70.0%; Score 14; DB 1; Length 19;
 Best Local Similarity 78.6%; Pred. No. 13;
 Matches 11; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
 QY 7 GGTCACATGGATGA 20
 DB 1 GGUCACAUCAUGA 14
 ||:||||:||||:
 RESULT 13
 ID AD257911/c
 XX AD257911 standard; RNA; 19 BP.
 XX
 AC AD257911;
 XX
 DT 30-JUN-2005 (first entry)
 XX
 DE Sense siRNA oligo that modulates human HIF1 expression Seq 39.
 XX
 XX ss; short interfering RNA; siRNA; gene silencing; RNA interference;
 KW hypoxia inducible factor 1; cancer; hyperproliferation;
 KW macular degeneration; diabetic retinopathy; cytostatic; ophthalmological;
 KW antidiabetic.
 XX
 XX Homo sapiens.
 OS
 XX
 XX PN WO2005035759-A2.
 PD 21-APR-2005.
 XX
 XX 20-AUG-2004; 2004WO-US027294.
 PF
 XX
 XX 20-AUG-2003; 2003US-0496655P.
 PR 23-OCT-2003; 2003US-00693059.
 PR 24-NOV-2003; 2003US-00720448.
 PR 03-DEC-2003; 2003US-00727780.
 PR 14-JAN-2004; 2004US-00757803.
 PR 10-FEB-2004; 2004US-0543480P.
 PR 13-FEB-2004; 2004US-00780447.
 PR 16-APR-2004; 2004US-00826966.
 PR 30-APR-2004; 54US-08997777.
 PR 24-MAY-2004; 54US-09996666.
 XX
 XX (SIRN-) SIRNA THERAPEUTICS INC.
 PA
 XX

PI Usman N, Mcswigen J;
 XX
 XX DR WPI; 2005-306364/31.
 XX
 PT New chemically synthesized double stranded short interfering nucleic acid
 PT molecule that directs cleavage of a hypoxia inducible factor 1 RNA via
 PT RNA interference (RNAi), useful for modulating HIF1, its expression or
 PT activity.
 XX
 XX
 PS Claim 33; SEQ ID NO 39; 1899p; English.
 CC This invention relates to a novel chemically synthesized double stranded
 CC short interfering nucleic acid strand (siNA). Specifically, it refers to
 CC siNAs that direct cleavage of a hypoxia inducible factor 1 (HIF1) RNA via
 CC RNA interference (RNAi). In particular, the siNAs may include short
 CC interfering RNA (siRNA), double-stranded RNA (dsRNA), micro-RNA (miRNA)
 CC and short hairpin RNA (shRNA) molecules that are capable of mediating
 CC RNAi. The present invention describes a sense strand of a double-stranded
 CC siNA that comprises a nucleotide sequence that is complementary to HIF1
 CC RNA or a portion thereof, and where a second strand is the complementary
 CC antisense siNA strand. Note that the sense region is connected to the
 CC antisense region via a polynucleotide linker molecule. Accordingly, these
 CC siNAs are useful in providing compositions for the treatment of traits,
 CC diseases and conditions that respond to modulation of HIF1 expression,
 CC namely cancer and proliferative conditions including macular
 CC degeneration, diabetic retinopathy and other conditions associated with
 CC hypoxia inducible proliferation. As such, these compositions exhibit
 CC cytostatic, ophthalmological and antidiabetic activities. This
 CC oligonucleotide sequence is a sense siRNA strand that targets human HIF1
 CC RNA to modulate expression given in an exemplification of the invention.
 XX
 XX
 SQ Sequence 19 BP; 4 A; 6 C; 2 G; 0 T; 7 U; 0 Other;
 Query Match 70.0%; Score 14; DB 1; Length 19;
 Best Local Similarity 100.0%; Pred. No. 13;
 Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 7 GGTCACATGGATGA 20
 DB 19 GGTCACATGGATGA 6
 |||||
 RESULT 14
 ID ABR38435/c
 XX ABR38435 standard; DNA; 17 BP.
 XX
 AC ABR38435;
 XX
 DT 12-JUN-2003 (first entry)
 XX
 DE Tumour suppression related human fukutin oligo SEQ ID No 4072.
 XX
 XX Cytostatic; virucide; neuroprotective; nootropic; neuroleptic; gene chip;
 KW antisense; sense; tumour; cell degeneration; cancer; Alzheimer's disease;
 KW schizophrenia; protein chip; gene therapy; tumour suppression;
 KW human fukutin; ds.
 XX
 XX Homo sapiens.
 OS
 XX
 XX PN WO2003025175-A2.
 PD 27-MAR-2003.
 XX
 XX 17-SEP-2002; 2002WO-1B004208.
 PR 17-SEP-2001; 2001FR-00011978.
 XX
 XX (MOLE-) MOLECULAR ENGINES LAB.
 PA
 XX Telerman A, Amson R, Tuijnder M;
 PI
 XX WPI; 2003-313353/30.
 XX

PT New isolated nucleic acid, useful for treating viral diseases associated
PT with tumors and cell degeneration, also related polypeptides, antibodies
PT and transfected cells.
XX
PS Disclosure, Page 510; 720pp; French.
XX
CC The invention relates to a novel isolated 17 mer nucleic acid sequence,
CC given in the specification, a sequence containing at least 15 consecutive
CC nucleotides from the 17 mer sequence, a sequence with, after optimal
CC alignment, at least 80 % identity to the 17 mer sequence, a sequence that
CC hybridizes to them under highly stringent conditions, or the complement
CC of any of them, or the corresponding RNA. The novel isolated nucleic
CC acids of the invention are useful as probes and primers for detecting,
CC identifying, quantifying and/or amplifying a nucleic acid, e.g. as one
CC component of a gene chip, in vitro as (anti)sense reagents, and for
CC production of recombinant polypeptides. Any of the nucleic acids,
CC polypeptides, vectors containing the nucleic acids, cells containing the
CC vector or antibodies directed against the polypeptides are useful for
CC preparation of pharmaceuticals for prevention and/or treatment of viral
CC diseases that are characterised by development of tumours or cell
CC degeneration, specifically cancer but also Alzheimer's disease and
CC schizophrenia. Analysis of the expression of the 17 mer nucleic acids in
CC patient samples is useful for diagnosis and/or prognosis of these
CC diseases. The polypeptides can also be used to generate antibodies, and
CC both the polypeptide and antibodies are useful as components of protein
CC chips. The nucleic acid sequences of the invention can be used in gene
CC therapy. This polynucleotide sequence represents a tumour suppression
CC related human fukutin oligonucleotide of the invention
XX
SQ Sequence 17 BP; 4 A; 4 C; 3 G; 6 T; 0 U; 0 Other;
XX
Query Match 64.0%; Score 12.8; DB 1; Length 17;
Best Local Similarity 87.5%; Pred. No. 16;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
XX
QY 3 TCATGTCACATGATG 18
DB 17 TCAGGTCGAATGAT 2
XX
RESULT 15
ADM14071/c
ID ADM14071 standard; DNA; 18 BP.
XX
AC ADM14071;
XX
DT 07-APR-2005 (first entry)
XX
DE KCNMAL exon 1B sense PCR primer, SEQ ID 3.
XX
KM Noctropic; autism; potassium channel; KCNMAL; PCR; primer; ss.
XX
OS Homo sapiens.
XX
PN FR2857452-A1.
XX
PD 14-JAN-2005.
XX
PF 11-JUL-2003; 2003FR-00008527.
XX
PR 11-JUL-2003; 2003FR-00008527.
XX
PA (UWRA-) UNIV RABISLAIS FRANCOIS.
XX
PI Briault S, Laumonnier F, le Guennec JY, Roger S;
XX
DR MPI; 2005-114499/13.
XX
PT Test for identifying autism, comprises detecting reduction in activity of
PT calcium-dependent potassium channels by measuring the electrical activity
PT of the channels.
XX
PS Example 1; SEQ ID NO 3; 42pp; French.

XX
CC The present invention relates to a test for detecting autism, which
CC comprises measuring the electrical activity of calcium-dependent
CC potassium channels (BKCa) in a sample of blood cells and detecting any
CC reduction in activity, relative to a control sample. Also claimed are:
CC selecting a subpopulation of patients with autism by performing the new
CC method and selecting subjects with reduced BKCa activity; and use of
CC activators or agonists of BKCa to prepare a composition for treating
CC autism where this is associated with deficient electrical activity. The
CC method is useful for autism diagnosis and prognosis and to identify a
CC subset of autism patients who may benefit from treatment with activators
CC or agonists (X) of BKCa, i.e. patients where autism is linked to a
CC defective electrical activity. In an example from the invention, a
CC translocation in the potassium channel KCNMAL gene in a six year old
CC patient with autism was detected and characterized using PCR primers
CC ADM14069-ADM14128. The KCNMAL gene encodes a protein of the glutamatergic
CC complex, and mutation of the KCNMAL gene resulting in inadequate
CC functioning of BKCa. The translocation was (46, XY, t(9;10) (q23;q22)),
CC and the break was between the first and second exons of the KCNMAL gene
CC and amplification tests showed that, in the patient, one copy of the
CC KCNMAL was inactivated.
XX
SQ Sequence 18 BP; 4 A; 6 C; 5 G; 3 T; 0 U; 0 Other;
XX
Query Match 64.0%; Score 12.8; DB 1; Length 18;
Best Local Similarity 87.5%; Pred. No. 18;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
XX
QY 4 CATGTCACATGATG 19
DB 16 CATGTCACCGGATG 1
XX
RESULT 16
ABN07620/c
ID ABN07620 standard; DNA; 17 BP.
XX
AC ABN07620;
XX
DT 29-MAY-2002 (first entry)
XX
DE Human GDMLP-1 17-mer scanning SEQ ID NO:5 sequence SEQ ID NO:7612.
XX
KM Human; genome-derived myosin-like protein 1; GDMLP-1; heart;
XX muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;
XX skeletal muscle disorder; amplicon; screening; ss.
XX
OS Homo sapiens.
XX
PN WO200192524-A2.
XX
PD 06-DEC-2001.
XX
PF 25-MAY-2001; 2001WO-US016981.
XX
PR 26-MAY-2000; 2000US-0207456P.
XX
PR 21-SEP-2000; 2000US-0234687P.
XX
PR 27-SEP-2000; 2000US-0236359P.
XX
PR 04-OCT-2000; 2000GB-00024263.
XX
PR 30-JAN-2001; 2001WO-US000662.
XX
PR 30-JAN-2001; 2001WO-US000662.
XX
PR 30-JAN-2001; 2001WO-US000663.
XX
PR 30-JAN-2001; 2001WO-US000664.
XX
PR 30-JAN-2001; 2001WO-US000665.
XX
PR 30-JAN-2001; 2001WO-US000666.
XX
PR 30-JAN-2001; 2001WO-US000667.
XX
PR 30-JAN-2001; 2001WO-US000668.
XX
PR 30-JAN-2001; 2001WO-US000669.
XX
PR 30-JAN-2001; 2001WO-US000670.
XX
PR 05-FEB-2001; 2001US-0266860P.
XX
PA (AEOM-) AEOMICA INC.
XX

PI Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;
 XX
 XX WPI; 2002-179446/23.
 XX
 XX New polypeptide, for raising antibodies that recognize hGDMPL-1 proteins,
 PT or as specific biomolecule capture probes for surface-enhanced laser
 PT desorption ionization, comprises human myosin-like protein hGDMPL-1.
 XX
 PS Disclosure; SEQ ID NO 7612; 214pp; English.
 XX
 XX The present invention describes a human genome-derived myosin-like
 CC protein 1 (hGDMPL-1). The protein and polynucleotide sequences of hGDMPL-
 CC 1 can be used in gene therapy and vaccine production. The hGDMPL-1
 CC nucleic acids can be used as probes to detect, characterize and quantify
 CC hGDMPL-1 nucleic acids in samples, as amplification substrates, to
 CC provide initial substrates for the recombinant engineering of hGDMPL-1
 CC expressing the proteins. The hGDMPL-1 proteins or polypeptides may be
 CC used as immunogens to raise antibodies that specifically recognise hGDMPL
 CC -1 proteins, as standards in assays used to determine the concentration
 CC and/or amount specifically of hGDMPL proteins, as specific biomolecule
 CC capture probes for surface-enhanced laser desorption/ionisation, as
 CC therapeutic supplement in patients having specific deficiency in hGDMPL-1
 CC production, and in vaccines or for replacement therapy. The
 CC polynucleotide sequences encoding hGDMPL-1 may be used for diagnosing a
 CC disorder associated with the expression of hGDMPL-1, in particular heart
 CC and skeletal muscle disorders. hGDMPL-1 is localised to chromosome 22.
 CC The present sequence represents an oligomer used in the screening of the
 CC hGDMPL-1 sequence in the exemplification of the present invention. N.B.
 CC The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format directly from WIPO
 CC at ftp.wipo.int/pub/published_pct_sequence
 XX
 SQ Sequence 17 BP; 3 A; 4 C; 5 G; 5 T; 0 U; 0 Other;
 Query Match 61.0%; Score 12.2; DB 1; Length 17;
 Best Local Similarity 82.4%; Pred. No. 20;
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
 QY 1 CCTCATGTCACATGCA 17
 DB 17 CCTCAGGTCTACAGGTA 1
 RESULT 17
 ID ACN12001 standard; RNA; 17 BP.
 XX
 XX ACN12001;
 AC
 XX
 XX 22-APR-2004 (first entry)
 DT
 XX
 DE WNV minus strand Inozyme substrate SEQ ID NO 12004.
 XX
 XX WNV; West Nile Virus; antiinflammatory; cytototoxic; hepatotropic;
 KM viruslike; neuroprotective; antibacterial; replication; pancreatitis;
 KM encephalitis; myocarditis; meningitis; infection; hepatitis;
 KM liver failure; cancer; cirrhosis; Hammerhead; Inozyme; DNAzyme;
 KM Amberzyme; Zinzyme; ss.
 OS
 XX West Nile Virus.
 OS
 XX
 PN MO200268637-A2.
 XX
 PD 06-SEP-2002.
 XX
 XX 19-OCT-2001; 2001WO-US048350.
 PF
 XX 20-OCT-2000; 2000US-0242411P.
 PR
 XX (RIBO-) RIBOZYME PHARM INC.
 PA (BLAT) BLATT L.
 PA (MCSW/) MCSWIGEN J A.

XX
 PI Blact L, Mcswigen JA;
 XX
 XX WPI; 2002-706994/76.
 DR
 XX
 XX New nucleic acid molecule that modulates replication of West Nile Virus
 PT (WNV), useful for treating a condition related to WNV infection e.g.
 PT pancreatitis, meningitis, hepatocellular carcinoma or cirrhosis.
 XX
 PS Claim 23; SEQ ID NO 12004; 495pp; English.
 XX
 XX The invention relates to nucleic acid molecules that modulate replication
 CC of the West Nile Virus (WNV). The nucleic acid molecules are useful for
 CC treating a condition related to WNV infection e.g. pancreatitis,
 CC encephalitis, myocarditis, meningitis, neurologic infection, hepatitis,
 CC liver failure, hepatocellular carcinoma or cirrhosis. The nucleic acid
 CC molecule is selected from the group of ribozymes consisting of
 CC Hammerhead, Inozyme, G-leaver, DNAzyme, Amberzyme and Zinzyme. The
 CC nucleic acid molecules further comprise at least five ribose residues, at
 CC least ten 2'-O-methyl modifications, phosphorothioate linkages on at
 CC least three of the 5' terminal nucleotides and a 3' end modification of a
 CC 3'-3' inverted abasic moiety. Nucleic acid molecules SEQ ID NO 1 to 37080
 CC are claimed; However, SEQ ID NO 2194-2206 and 17502-17514 are not given
 CC in the specification. The present sequence is that of a nucleic acid
 CC molecule of the invention
 XX
 SQ Sequence 17 BP; 4 A; 5 C; 2 G; 0 T; 6 U; 0 Other;
 Query Match 61.0%; Score 12.2; DB 1; Length 17;
 Best Local Similarity 52.9%; Pred. No. 20;
 Matches 9; Conservative 5; Mismatches 3; Indels 0; Gaps 0;
 QY 3 TCATGTCACATGATG 19
 DB 1 UCACUCUCACACGAGU 17
 RESULT 18
 ID ACN70710/c
 ACN70710;
 XX
 XX ACN70710;
 AC
 XX
 XX 02-DEC-2004 (first entry)
 DT
 XX
 DE Human GDMPL-1 probe SEQ ID NO:7612.
 XX
 XX Human; ss; probe; myosin-like protein-1; hGDMPL-1;
 KM hGDMPL-1 agonist hGDMPL antagonist; hGDMPL inhibitor; heart disorder;
 KM skeletal muscle function.
 KM
 XX
 OS Homo sapiens.
 XX
 XX US2004137589-A1.
 PN
 XX
 PD 15-JUL-2004.
 XX
 PF 26-NOV-2003; 2003US-00723361.
 XX
 XX 26-MAY-2000; 2000US-0207456P.
 PR 21-SEP-2000; 2000US-0234687P.
 PR 27-SEP-2000; 2000US-0236359P.
 PR 04-OCT-2000; 2000GB-00024263.
 PR 30-JAN-2001; 2001WO-US000661.
 PR 30-JAN-2001; 2001WO-US000662.
 PR 30-JAN-2001; 2001WO-US000663.
 PR 30-JAN-2001; 2001WO-US000664.
 PR 30-JAN-2001; 2001WO-US000665.
 PR 30-JAN-2001; 2001WO-US000666.
 PR 30-JAN-2001; 2001WO-US000667.
 PR 30-JAN-2001; 2001WO-US000668.
 PR 30-JAN-2001; 2001WO-US000669.
 PR 30-JAN-2001; 2001WO-US000670.


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PR 05-FEB-2001; 2001US-0266860P.
PR 25-MAY-2001; 2001US-00866108.
XX
PA (GUTY/) GU Y.
PA (JITV/) JI Y.
PA (PENN/) PENN S G.
PA (HANZ/) HANZEL D K.
PA (RANK/) RANK D.
PA (CHEN/) CHEN W.
PA (SHAN/) SHANNON M E.
PI Gu Y, JI Y, Penn SG, Hanzel DK, Rank D, Chen W, Shannon ME;
DR WPI; 2004-533378/51.
XX
PT Novel myosin-like protein-1, useful for treating or preventing disorder
PT associated with decreased expression or activity of human genome-derived
PT myosin-like protein-1 such as disorder of heart and/or skeletal muscle
PT function.
XX
PS Disclosure; SEQ ID NO 7612; 0pp; English.
XX
CC The invention relates to a novel polypeptide (I) comprising a sequence
CC (S1) of myosin-like protein-1 (hGDMMP-1) having 2568 amino acids fully
CC defined in the specification, a fragment of at least 8 amino acids of
CC (S1), 95% deviation from (S1) which are conservative substitutions, and
CC 65% identity to (S1). A polypeptide of the invention acts as a agonist or
CC antagonist of hGDMMP-1, or as an inhibitor of hGDMMP-1 activity. A
CC pharmaceutical composition of the invention is useful for treating or
CC preventing a disorder associated with decreased expression or activity of
CC hGDMMP-1, such as a disorder of heart and/or skeletal muscle function.
CC The present sequence represents a 17-mer nucleotide, used in the
CC invention for scanning the sequence represented in ACN63103
XX
SQ Sequence 17 BP; 3 A; 4 C; 5 G; 5 T; 0 U; 0 Other;
XX
Query Match 61.0%; Score 12.2; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 20;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 1 CCTCATGTCATCATGGA 17
DB 17 CCTCAAGTCACACGGA 1
XX
RESULT 19
AAF51883/c
ID AAF51883 standard; DNA; 15 BP.
XX
AC AAF51883;
XX
DT 30-MAR-2001 (first entry)
XX
DE IGF-1 oligonucleotide #2843.
XX
KW Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
KW cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;
KW skin disorder; Insulin-like Growth Factor 1 receptor; IGF-1; ptyriasis;
KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
KW growth factor mediated cell proliferation; ichthyosis; seborrhoea; ruba;
KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
KW hypervascular condition; hyperplasia; kidney disease;
KW neovascular condition of the retina; ss.
XX
OS Homo sapiens.
XX
PN WO200078341-A1.
XX
PD 28-DEC-2000.
XX
PF 21-JUN-2000; 2000WO-AU000693.
XX
PR 21-JUN-1999; 99US-0140345P.

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XX
PA (MURD-) MURDOCH CHILDRENS RES INST.
XX
PI Wraight CJ, Werther GA, Edmondson SR;
XX
DR WPI; 2001-041421/05.
XX
PT Ameliorating the effects of a disorder, e.g. psoriasis, by administering
PT UV (ultra-violet) treatment (optional) and an antisense nucleic acid that
PT inhibits or reduces growth factor mediated cell proliferation and/or
PT inflammation.
XX
PS Example 8; Page 79; 201pp; English.
XX
CC The present invention relates to a method for ameliorating the effects of
CC skin disorders. The method comprises contacting the skin with an
CC antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1
CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of
CC inhibiting or reducing growth factor mediated cell proliferation,
CC inflammation and/or other disorders. The present sequence is an
CC oligonucleotide which can be used to design the antisense
CC oligonucleotides of the present invention (see AAF45151 and AAF45153-
CC F45161). The method is useful for ameliorating the effects of psoriasis,
CC ichthyosis, ptyriasis, ruba, pilaris, seborrhoea, keloids, keratosis,
CC neoplasias, scleroderma, warts, benign growths, cancers of the skin, a
CC hypervascular condition such as a neovascular condition of the retina,
CC brain or skin, growth factor-mediated malignancies, other sclerotic
CC disease, kidney disease, hyperproliferation of the inside of blood
CC vessels or any other hyperplasia
XX
SQ Sequence 15 BP; 4 A; 5 C; 1 G; 5 T; 0 U; 0 Other;
XX
Query Match 59.0%; Score 11.8; DB 1; Length 15;
Best Local Similarity 86.7%; Pred. No. 18;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 6 TGGTCACATGATGGA 20
DB 15 TATTCAGATGATGGA 1
XX
RESULT 20
AAF51884/c
ID AAF51884 standard; DNA; 15 BP.
XX
AC AAF51884;
XX
DT 30-MAR-2001 (first entry)
XX
DE IGF-1 oligonucleotide #2844.
XX
KW Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
KW cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;
KW skin disorder; Insulin-like Growth Factor 1 receptor; IGF-1; ptyriasis;
KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
KW growth factor mediated cell proliferation; ichthyosis; seborrhoea; ruba;
KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
KW hypervascular condition; hyperplasia; kidney disease;
KW neovascular condition of the retina; ss.
XX
OS Homo sapiens.
XX
PN WO200078341-A1.
XX
PD 28-DEC-2000.
XX
PF 21-JUN-2000; 2000WO-AU000693.
XX
PR 21-JUN-1999; 99US-0140345P.
XX
PA (MURD-) MURDOCH CHILDRENS RES INST.
XX
PI Wraight CJ, Werther GA, Edmondson SR;

```

XX WPI; 2001-041421/05.
 DR Ameliorating the effects of a disorder, e.g. psoriasis, by administering
 XX UV (ultra-violet) treatment (optional) and an antisense nucleic acid that
 PT inhibits or reduces growth factor mediated cell proliferation and/or
 PT inflammation.
 XX
 PS Example 8; Page 79; 201pp; English.
 XX
 CC The present invention relates to a method for ameliorating the effects of
 CC skin disorders. The method comprises contacting the skin with an
 CC antisense oligonucleotide, (for insulin-like Growth Factor [IGF]-1
 CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of
 CC inhibiting or reducing growth factor mediated cell proliferation,
 CC inflammation and/or other disorders. The present sequence is an
 CC oligonucleotide which can be used to design the antisense
 CC oligonucleotides of the present invention (see AAF45151 and AAF45153-
 CC F45161). The method is useful for ameliorating the effects of psoriasis,
 CC ichthyosis, pityriasis, ruba, pilaris, seborrhea, keloids, keratosis,
 CC neoplasias, scleroderma, warts, benign growths, cancers of the skin, a
 CC hyperneovascular condition such as a neovascular condition of the retina,
 CC brain or skin, growth factor-mediated malignancies, other sclerotic
 CC disease, kidney disease, hyperproliferation of the inside of blood
 CC vessels or any other hyperplasia
 XX
 SQ Sequence 15 BP; 4 A; 5 C; 1 G; 5 T; 0 U; 0 Other;
 XX
 QY Query Match 59.0%; Score 11.8; DB 1; Length 15;
 XX Best Local Similarity 86.7%; Pred. No. 18;
 XX Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 DB 5 ATGGTCACATGATG 19
 15 ATGATCAGATGATG 1
 RESULT 21
 AD259539/c
 ID AD259539 standard; DNA; 16 BP.
 XX
 AC AD259539;
 XX
 DT 30-JUN-2005 (first entry)
 XX
 DE Hyperparathyroidism polymorphic detection VIC probe, SEQ ID 33.
 XX
 XX secondary hyperparathyroidism; endocrine-gen.; antihypoid;
 KM renal failure; nephrotropic; SNP detection; ss; probe.
 XX
 OS Synthetic.
 XX
 XX JP2005102601-A.
 PN
 XX
 PD 21-APR-2005.
 XX
 PF 30-SEP-2003; 2003JP-00341015.
 XX
 PR 30-SEP-2003; 2003JP-00341015.
 XX
 PA (HYUB-) HYBITTO GENOMICS KK.
 XX (JIKE-) UNIV JIKEI.
 XX
 DR WPI; 2005-358641/37.
 XX
 XX Testing secondary hyperparathyroidism in chronic renal failure patient,
 PT involves detecting variation in gene chosen from CACNA1C, CALCR1, CH13L1,
 PT EGF, FGFR1, GFRAL, GPR56 and GPRK6.
 XX
 PS Disclosure; SEQ ID NO 33; 138pp; Japanese.
 XX
 CC The invention relates to a novel method for testing secondary
 CC hyperparathyroidism in a chronic renal failure patient. The method

CC involves detecting a variation in a gene chosen from CACNA1C, CALCR1,
 CC CH13L1, EGF, FGFR1, GFRAL, GPR56, GPRK6, IL10RA, IL10RB, IL12RB1, KCNJ14,
 CC KCNQ1, ORCT14, PDGFRA, SCYB14, SLC12A1, SLC2A3, TGFBR3, TMEM1, CALCR,
 CC IL17R, OSTF1, FGF6, HGF, MET, TGFBI and VEGF, or detecting the base in a
 CC polymorphism region existing in the vicinity of any one of the genes. The
 CC invention further comprises a reagent or kit for testing secondary
 CC hyperparathyroidism in a chronic renal failure patient. This
 CC polymorphic sequence represents a probe used in the detection of a
 CC polymorphism in a gene linked to secondary hyperparathyroidism of the
 CC invention.
 XX
 SQ Sequence 16 BP; 4 A; 5 C; 3 G; 4 T; 0 U; 0 Other;
 XX
 QY Query Match 59.0%; Score 11.8; DB 1; Length 16;
 XX Best Local Similarity 86.7%; Pred. No. 20;
 XX Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 DB 3 TCATGGTCACATGCA 17
 16 TCTGTGCACAGCA 2
 RESULT 22
 AD259706/c
 ID AD259706 standard; DNA; 16 BP.
 XX
 AC AD259706;
 XX
 DT 30-JUN-2005 (first entry)
 XX
 DE Hyperparathyroidism polymorphic detection VIC probe, SEQ ID 200.
 XX
 XX secondary hyperparathyroidism; endocrine-gen.; antihypoid;
 KM renal failure; nephrotropic; SNP detection; ss; probe.
 XX
 OS Synthetic.
 XX
 XX JP2005102601-A.
 PN
 XX
 PD 21-APR-2005.
 XX
 PF 30-SEP-2003; 2003JP-00341015.
 XX
 PR 30-SEP-2003; 2003JP-00341015.
 XX
 PA (HYUB-) HYBITTO GENOMICS KK.
 XX (JIKE-) UNIV JIKEI.
 XX
 DR WPI; 2005-358641/37.
 XX
 XX Testing secondary hyperparathyroidism in chronic renal failure patient,
 PT involves detecting variation in gene chosen from CACNA1C, CALCR1, CH13L1,
 PT EGF, FGFR1, GFRAL, GPR56 and GPRK6.
 XX
 PS Disclosure; SEQ ID NO 200; 138pp; Japanese.
 XX
 CC The invention relates to a novel method for testing secondary
 CC hyperparathyroidism in a chronic renal failure patient. The method
 CC involves detecting a variation in a gene chosen from CACNA1C, CALCR1,
 CC CH13L1, EGF, FGFR1, GFRAL, GPR56, GPRK6, IL10RA, IL10RB, IL12RB1, KCNJ14,
 CC KCNQ1, ORCT14, PDGFRA, SCYB14, SLC12A1, SLC2A3, TGFBR3, TMEM1, CALCR,
 CC IL17R, OSTF1, FGF6, HGF, MET, TGFBI and VEGF, or detecting the base in a
 CC polymorphism region existing in the vicinity of any one of the genes. The
 CC invention further comprises a reagent or kit for testing secondary
 CC hyperparathyroidism in a chronic renal failure patient. This
 CC polymorphic sequence represents a probe used in the detection of a
 CC polymorphism in a gene linked to secondary hyperparathyroidism of the
 CC invention.
 XX
 SQ Sequence 16 BP; 4 A; 5 C; 3 G; 4 T; 0 U; 0 Other;
 XX
 QY Query Match 59.0%; Score 11.8; DB 1; Length 16;
 XX Best Local Similarity 86.7%; Pred. No. 20;
 XX Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 3 TCATGGTCACATGGA 17
16 TCTTGGTCACAGGGA 2

Db

RESULT 23

ADG13603
ID ADG13603 standard; RNA; 15 BP.

AC ADG13603;

XX 26-FEB-2004 (first entry)

XX Human HER1-4 hammerhead ribozyme target sequence #3.

XX Human; ss; EGFR; epidermal growth factor receptor; HER1; HER2; HER3;
KM HER4; hammerhead ribozyme; inozyme; zinzyme; DNazyme; amberzyme; cancer;
KM brain tumour; cytosolic; short interfering RNA; siRNA; RNA interference;
KM prostate cancer; colorectal cancer; brain cancer; oesophageal cancer;
KM stomach cancer; bladder cancer; pancreatic cancer; cervical cancer;
KM head and neck cancer; ovarian cancer; melanoma; lymphoma; glioma;
KM multidrug resistant cancer.

XX Homo sapiens.

PN US2003186909-A1.

PD 02-OCT-2003.

PF 21-OCT-2002; 2002US-00277494.

PR 27-JAN-1997; 97US-0036749P.

PR 04-DEC-1997; 97US-00985162.

PR 22-SEP-1999; 99US-00401063.

PR 03-MAY-2001; 2001US-00848754.

PR 25-JUL-2001; 2001US-00916466.

XX (RIBO-) RIBOZYME PHARM INC.

PI Mcswiggen J;

DR WPI; 2004-032029/03.

XX New double stranded short interfering ribonucleic acid molecule for

PT inhibiting expression of epidermal growth factor receptor gene.

PS Claim 7; SEQ ID NO 30; 113pp; English.

XX The invention relates to a double stranded short interfering RNA (siRNA)
CC molecule that inhibits expression of epidermal growth factor receptor
CC (EGFR) gene (e.g. HER1-4) by RNA interference is new. Also included is an
CC expression vector comprising a nucleic acid sequence encoding siRNA
CC molecule(s) in a manner that allows expression of the nucleic acid
CC molecule. The siRNA molecules comprise hammerhead ribozymes, inozymes,
CC amberzymes zinzymes and DNazymes. The invention is used for inhibiting
CC expression of EGFR. It can be used for treatment of cancer, prostate
CC cancer, colorectal cancer, brain cancer, oesophageal cancer, stomach
CC cancer, bladder cancer, pancreatic cancer, cervical cancer, head and neck
CC cancer, ovarian cancer, melanoma, lymphoma, glioma, multidrug resistant
CC cancer or a brain tumour. The invention has enhanced shelf-life, half-
CC life in vitro, stability, and ease of introduction of oligonucleotide to
CC target site. The present sequence is an EGFR/HER1-4 target sequence for
CC an siRNA of the invention.

XX Sequence 15 BP; 4 A; 2 C; 3 G; 0 T; 6 U; 0 Other;

Query Match 57.0%; Score 11.4; DB 1; Length 15;

Best Local Similarity 61.5%; Pred. No. 21;

Matches 8; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 3 TCATGGTCACATG 15

Db :||:|||||:|
1 UCAGGUCCAAUG 13

RESULT 24

ADM69289/C
ID ADM69289 standard; DNA; 16 BP.

AC ADM69289;

XX 03-JUN-2004 (first entry)

XX plant gene polymorphism marker related primer, SEQ ID 168.

XX Primer; variation mapping; mutation mapping; plant;

XX gene polymorphism marker; ss.

XX Synthetic.

XX JP2003289885-A.

XX 14-OCT-2003.

XX 31-JAN-2003; 2003JP-00024620.

XX 01-FEB-2002; 2002JP-00025338.

XX (RIKA) RIKAGAKU KENKYUSHO.

XX (SAIM-) SAI MEDIA KK.

XX (MATS/) MATSUI M.

XX (NAKA/) NAKAZAWA M.

XX WPI; 2004-126231/13.

XX A primer set and method useful for mapping at least the

PT variation/mutation part of a plant gene using a gene polymorphism marker.

XX Claim 7; SEQ ID NO 168; 120pp; Japanese.

XX The present invention relates to a primer set and method for mapping at
CC least the variation/mutation part of a plant gene using a gene
CC polymorphism marker. A mutation site of the plant gene is mapped by
CC utilizing a genetic polymorphism marker as follows: (a) genomic DNA is
CC prepared from a plant homozygously having a mutation to be an object of
CC the mapping; (b) A forward primer 1 containing a base corresponding to
CC the gene polymorphic marker of one ecotype plant, a forward primer 2
CC containing a base corresponding to the genetic polymorphism of the other
CC ecotype plant and a reverse primer 3 based on the base sequence common
CC with both the ecotype plants are prepared; (c) two kinds of
CC oligonucleotides emitting fluorescence of different colors when the
CC genetic polymorphism marker is detected are prepared; (d) an
CC amplification reaction of the genomic DNA is carried out in the presence
CC of the primers 1, 2 and 3 and the two kinds of the oligonucleotides; (e)
CC the fluorescence intensity emitted from the resultant reaction product
CC is detected and (f) the position on the genome of the mutation site is
CC determined from the results of detection. The present sequence is a
CC primer, used to illustrate the invention.

XX Sequence 16 BP; 2 A; 7 C; 3 G; 4 T; 0 U; 0 Other;

Query Match 57.0%; Score 11.4; DB 1; Length 16;

Best Local Similarity 92.3%; Pred. No. 23;

Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 8 GTCACATGGATGA 20
14 GTCACATGGAGGA 2

RESULT 25

ADR74253/C
ID ADR74253 standard; DNA; 16 BP.

AC ADR74253;
XX
XX 16-DEC-2004 (first entry)
DT
XX
XX Common primer B for human MI-associated marker hcv2633049.
DE
XX
XX Human; ss; PCR; primer; SNP; single nucleotide polymorphism;
KM myocardial infarction.
XX
XX Homo sapiens.
OS
XX WO2004081187-A2.
PN
XX 23-SEP-2004.
PD
XX
XX 10-MAR-2004; 2004WO-US007141.
PF
XX
XX 10-MAR-2003; 2003US-0453135P.
PR 30-APR-2003; 2003US-0466412P.
PR
XX (APPL-) APPLERA CORP.
PA
XX Cargill M, Devlin JJ, Iakubova O, Shiffman D;
PI MPI; 2004-677537/66.
DR
XX
XX Identifying an individual who has altered risk for developing myocardial
PT infarction comprises detecting single nucleotide polymorphism (SNP), in
PT the individual's nucleic acids.
XX
XX Claim 19; SEQ ID NO 44078; 139pp; English.
PS
XX
XX The invention relates to identifying an individual who has altered risk
CC for developing myocardial infarction comprising detecting single
CC nucleotide polymorphism (SNP) in any one of the 43336 nucleotide
CC sequences (not given in the specification), in the individual's nucleic
CC acids, where the presence of the SNP is correlated with an altered risk
CC for myocardial infarction in the individual. Also included are an
CC isolated nucleic acid molecule (comprising at least 8 contiguous
CC nucleotides where one of the nucleotides is an SNP as cited above, or
CC their complement), an isolated polypeptide comprising an amino acid
CC sequence selected from any of the 696 amino acid sequences not defined in
CC the specification, an antibody that specifically binds to the polypeptide
CC (or its antigen-binding fragment), an amplified polynucleotide containing
CC the SNP as cited (where the amplified polynucleotide is between about 16
CC and about 1,000 nucleotides in length), an isolated polynucleotide which
CC specifically hybridizes to a nucleic acid molecule containing the SNP, a
CC kit for detecting SNP in a nucleic acid, detecting SNP in a nucleic acid
CC molecule, detecting a variant polypeptide and identifying an agent useful
CC in therapeutically or prophylactically treating myocardial infarction.
CC The detection step of the method is carried out by a process selected
CC from allele-specific probe hybridization, allele-specific primer
CC extension, allele-specific amplification, sequencing, 5' nuclease
CC digestion, molecular beacon assay, oligonucleotide ligation assay, size
CC analysis, and single-stranded conformation polymorphism. The method is
CC useful for identifying an individual who has altered risk for developing
CC myocardial infarction. The present sequence is common primer (used with
CC an allele specific PCR primer) used to amplify an SNP-containing region
CC from a myocardial infarction-associated marker gene. NOTE: SEQ IDs 1-
CC 43787 are not shown in the specification and are not available from WIPO.
CC These sequence are contained on a CD-R named CL001509CDR which has not
CC been supplied with the specification.
XX
XX
SQ Sequence 16 BP; 4 A; 6 C; 4 G; 2 T; 0 U; 0 Other;

Query Match 56.0%; Score 11.2; DB 1; Length 16;
Best Local Similarity 81.2%; Pred. No. 25;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 CTTGATGGTCACATGG 16
| | | | | | | | | | | | | | | |
DB 16 CTTGATGGTCACATGG 1

RESULT 26
ABK09404
ID ABK09404 standard; DNA; 15 BP.
XX
XX
XX ABK09404;
AC
XX
XX 14-MAR-2002 (first entry)
DT
XX
XX Human NRI gene allele-specific oligonucleotide sequencing primer #26.
DE
XX
XX Human; natriuretic peptide receptor A/guanylate cyclase A; NRI; ss;
KM atrionatriuretic peptide receptor A; haplotyping; cytosatic; genotyping;
KM haplotype pair; single nucleotide polymorphism; gene therapy; PCR primer;
KM drug screening; hypertension; hypotensive; sequencing primer; probe.
XX
XX Homo sapiens.
OS
XX WO200179231-A2.
PN
XX 25-OCT-2001.
PD
XX
XX 16-APR-2001; 2001WO-US012300.
PF
XX
XX 14-APR-2000; 2000US-0197330P.
PR
XX (GENA-) GENA/ISSANCE PHARM INC.
PA
XX Bentivegna SC, Choi JY, Klem SE, Nandabalan K;
PI MPI; 2002-066340/09.
DR
XX
XX Genotyping human natriuretic peptide receptor A/guanylate cyclase gene of
PT an individual, involves determining identity of nucleotide pair at
PT specific polymorphic sites for two copies of the gene.
XX
XX Claim 15; Page 14; 96pp; English.
PS
XX
XX The invention relates to single nucleotide polymorphisms in the gene
CC encoding the human natriuretic peptide receptor A/guanylate cyclase A
CC (atrionatriuretic peptide receptor A) or NRI polypeptide. A method for
CC haplotyping the NRI gene in an individual comprises identifying the
CC nucleotide at one or more polymorphic sites and determining whether one
CC of the copies of the gene is defined by one of the NRI haplotypes given
CC in the specification or whether both copies are defined by a haplotype
CC pair. This method is useful in genotyping, whereby all possible haplotype
CC pairs can be assigned to specific genotypes. An association between a
CC trait and a haplotype or haplotype pair of the NRI gene can be
CC identified by comparing the frequency of the haplotype or haplotype pair
CC in a population exhibiting the trait with the frequency of the haplotype
CC or haplotype pair in a reference population, where a higher haplotype
CC frequency in the trait population indicates the trait is associated with
CC the haplotype or haplotype pair. NRI and its corresponding DNA are used
CC for studying the expression and function of NRI, for use in screening
CC for candidate drugs to treat diseases related to NRI activity, such as
CC hypertension. The sequences are also useful for studying the effect of
CC variation on the biological activity of NRI as well as on the binding
CC affinity of candidate drugs targeting NRI. Sequences AAS99959-AAS99990
CC and ABK09390-ABK09462 represent probes, sequencing primers and PCR
CC primers used to detect NRI gene polymorphisms
XX
XX
SQ Sequence 15 BP; 5 A; 4 C; 3 G; 2 T; 0 U; 1 Other;

Query Match 55.0%; Score 11; DB 1; Length 15;
Best Local Similarity 84.6%; Pred. No. 24;
Matches 11; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 CTTGATGGTCACAT 14
| | | | | | | | | | | | | | | |
DB 2 CTTGATGGTCACAT 14

RESULT 27

ACL73850
 ID ACL73850 standard; DNA; 15 BP.
 AC ACL73850;
 DT 16-JUN-2005 (first entry)
 DE SARS coronavirus right PCR primer, SEQ:631.
 KM Vaccine; nucleic acid vaccine; drug screening; diagnosis;
 KM SARS coronavirus infection; infection; respiratory disease; virucide;
 KM PCR; primer; ss.
 OS SARS coronavirus.
 PN WO2004092360-A2.
 PD 28-OCT-2004.
 PF 09-APR-2004; 2004WO-US011710.
 PR 10-APR-2003; 2003US-0462218P.
 PR 11-APR-2003; 2003US-0462465P.
 PR 12-APR-2003; 2003US-0462418P.
 PR 13-APR-2003; 2003US-0462748P.
 PR 14-APR-2003; 2003US-0463109P.
 PR 15-APR-2003; 2003US-0463460P.
 PR 16-APR-2003; 2003US-0463668P.
 PR 17-APR-2003; 2003US-0463981P.
 PR 18-APR-2003; 2003US-0463971P.
 PR 22-APR-2003; 2003US-0464838P.
 PR 23-APR-2003; 2003US-0464899P.
 PR 24-APR-2003; 2003US-0465273P.
 PR 05-MAY-2003; 2003US-0465535P.
 PR 22-MAY-2003; 2003US-0473144P.
 PR 14-AUG-2003; 2003US-0495024P.
 PR 23-SEP-2003; 2003US-0505552P.
 PR 11-OCT-2003; 2003US-0510781P.
 PR 11-DEC-2003; 2003US-0529464P.
 PR 12-JAN-2004; 2004US-0536177P.
 PR 07-APR-2004; 2004US-0560757P.
 PA (CHIR) CHIRON CORP.
 PI Rappuoli R, Masignani V, Stadler K, Gregersen J, Chien D, Han J;
 PI Polo J, Weiner A, Houghton M, Song HC, Seo MY, Donnelly JJ;
 PI Klenk HD, Valiante N;
 XX MPI; 2004-766863/75.
 DR Novel isolated polypeptide e.g. spike polypeptide, of
 PT severe acute respiratory syndrome virus (SARS), useful as vaccine for
 PT SARS.
 PS Claim 59; SEQ ID NO 631; 839bp; English.
 XX The invention relates to isolated polypeptides of the severe acute
 CC respiratory syndrome (SARS) coronavirus. The polypeptides include spike
 CC (S or E2), env (E or SM), membrane (M or E1), hemagglutinin-esterase (HE
 CC or E3), and nucleocapsid (N) polypeptides, and the ORF1a and ORF1ab
 CC (replicase) polypeptides and their proteolytic fragments. The invention
 CC also relates to antibodies which recognise the polypeptides; nucleic
 CC acids encoding the SARS virus polypeptides; primers specific for SARS
 CC virus nucleic acid sequences; kits for amplifying SARS virus target
 CC nucleic acids; a double-stranded RNA molecule 10-30 nucleotides in length
 CC which is able to inactivate the SARS virus in a mammalian cell; an
 CC expression construct for recombinant expression of a SARS virus spike
 CC protein; a viral vector for in vivo delivery of a SARS virus polypeptide-
 CC encoding nucleic acid; and a mammalian cell line stably expressing a SARS
 CC viral antigen. The invention additionally provides a vaccine for the
 CC treatment or prevention of SARS comprising an inactivated SARS virus, a
 CC killed SARS virus, an attenuated SARS virus, a split SARS virus

CC preparation, or at least one purified SARS virus antigens; methods of
 CC making inactivated SARS virus and vaccines containing it; an alpha-virus
 CC replicon particle comprising one or more SARS viral antigens; and a
 CC vaccine comprising one or more SARS virus antigens and one or more
 CC respiratory virus antigens. The invention further encompasses a method of
 CC identifying a therapeutically active agent by measuring the effect of the
 CC agent on a SARS-related enzyme, and a method of treating a SARS patient
 CC using small molecule viral inhibitors. The SARS virus polypeptides and
 CC nucleic acids can be used in the preparation and manufacture of vaccines
 CC for the treatment or prevention of SARS. The SARS virus polypeptides,
 CC antibodies against them, and SARS virus-specific primers and kits
 CC containing them are useful for diagnosing or identifying the presence of
 CC SARS in a biological sample. The present sequence represents a PCR primer
 CC for amplifying a SARS coronavirus gene. Note: The sequence data for this
 CC patent did not form part of the printed specification, but was obtained
 CC in electronic format directly from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences
 XX
 SO Sequence 15 BP; 3 A; 5 C; 3 G; 4 T; 0 U; 0 Other;
 Query Match 55.0%; Score 11; DB 1; Length 15;
 Best Local Similarity 100.0%; Pred. No. 24;
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 2 CTCATGTCAC 12
 DB 5 CTCATGTCAC 15
 RESULT 28
 ID ACL73880 standard; DNA; 15 BP.
 AC ACL73880;
 XX
 DT 16-JUN-2005 (first entry)
 DE SARS coronavirus right PCR primer, SEQ:661.
 KM Vaccine; nucleic acid vaccine; drug screening; diagnosis;
 KM SARS coronavirus infection; infection; respiratory disease; virucide;
 KM PCR; primer; ss.
 OS SARS coronavirus.
 PN WO2004092360-A2.
 PD 28-OCT-2004.
 PF 09-APR-2004; 2004WO-US011710.
 PR 10-APR-2003; 2003US-0462218P.
 PR 11-APR-2003; 2003US-0462465P.
 PR 12-APR-2003; 2003US-0462418P.
 PR 13-APR-2003; 2003US-0462748P.
 PR 14-APR-2003; 2003US-0463109P.
 PR 15-APR-2003; 2003US-0463460P.
 PR 16-APR-2003; 2003US-0463668P.
 PR 17-APR-2003; 2003US-0463981P.
 PR 18-APR-2003; 2003US-0463971P.
 PR 22-APR-2003; 2003US-0464838P.
 PR 23-APR-2003; 2003US-0464899P.
 PR 24-APR-2003; 2003US-0465273P.
 PR 05-MAY-2003; 2003US-0465535P.
 PR 22-MAY-2003; 2003US-0473144P.
 PR 14-AUG-2003; 2003US-0495024P.
 PR 23-SEP-2003; 2003US-0505552P.
 PR 11-OCT-2003; 2003US-0510781P.
 PR 11-DEC-2003; 2003US-0529464P.
 PR 12-JAN-2004; 2004US-0536177P.
 PR 07-APR-2004; 2004US-0560757P.
 XX

PA (CHIR) CHIRON CORP.
 XX Rappuoli R, Masignani V, Stadler K, Gregersen J, Chien D, Han J,
 PI Polo J, Weiner A, Houghton M, Song HC, Seo MY, Donnelly JF,
 PI Klenk HD, Valiante N,
 XX
 DR WPI, 2004-766863/75.
 XX
 PT Novel isolated polypeptide e.g. spike polypeptide, Env polypeptide, of
 PT severe acute respiratory syndrome virus (SARS), useful as vaccine for
 PT SARS.
 XX
 PS Claim 59; SEQ ID NO 661; 839pp; English.
 XX
 CC The invention relates to isolated polypeptides of the severe acute
 CC respiratory syndrome (SARS) coronavirus. The polypeptides include spike
 CC (S or E2), env (E or SM), membrane (M or E1), hemagglutinin-esterase (HE
 CC or E3), and nucleocapsid (N) polypeptides, and the ORF1a and ORF1ab
 CC (replicase) polypeptides and their proteolytic fragments. The invention
 CC also relates to antibodies which recognise the polypeptides; nucleic
 CC acids encoding the SARS virus polypeptides; primers specific for SARS
 CC virus nucleic acid sequences; kits for amplifying SARS virus target
 CC nucleic acids; a double-stranded RNA molecule 10-30 nucleotides in length
 CC which is able to inactivate the SARS virus in a mammalian cell; an
 CC expression construct for recombinant expression of a SARS virus spike
 CC protein; a viral vector for in vivo delivery of a SARS virus polypeptide-
 CC encoding nucleic acid; and a mammalian cell line stably expressing a SARS
 CC viral antigen. The invention additionally provides a vaccine for the
 CC treatment or prevention of SARS comprising an inactivated SARS virus, a
 CC killed SARS virus, an attenuated SARS virus, a split SARS virus
 CC preparation, or at least one purified SARS virus antigens; methods of
 CC making inactivated SARS virus and vaccines containing it; an alpha-virus
 CC replicon particle comprising one or more SARS viral antigens; and a
 CC vaccine comprising one or more SARS virus antigens and one or more
 CC respiratory virus antigens. The invention further encompasses a method of
 CC identifying a therapeutically active agent by measuring the effect of the
 CC agent on a SARS-related enzyme, and a method of treating a SARS patient
 CC using small molecule viral inhibitors. The SARS virus polypeptides and
 CC nucleic acids can be used in the preparation and manufacture of vaccines
 CC for the treatment or prevention of SARS. The SARS virus polypeptides,
 CC antibodies against them, and SARS virus-specific primers and kits
 CC containing them are useful for diagnosing or identifying the presence of
 CC SARS in a biological sample. The present sequence represents a PCR primer
 CC for amplifying a SARS coronavirus gene. Note: The sequence data for this
 CC patent did not form part of the printed specification, but was obtained
 CC in electronic format directly from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences
 XX
 SO Sequence 15 BP; 3 A; 5 C; 4 G; 3 T; 0 U; 0 Other;
 Query Match 55.0%; Score 11; DB 1; Length 15;
 Best Local Similarity 100.0%; Pred. No. 24;
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Oy 2 CTCATGCTCAC 12
 Db 1 CTCATGCTCAC 11
 RESULT 29
 ACUL73792
 ID ACUL73792 standard; DNA, 15 BP.
 AC ACUL73792;
 XX
 DT 16-JUN-2005 (first entry)
 XX
 DE SARS coronavirus right PCR primer, SEQ:573.
 XX
 KM Vaccine; nucleic acid vaccine; drug screening; diagnosis;
 KM SARS coronavirus infection; infection; respiratory disease; virucide;
 KM PCR; primer; ss.
 XX

OS SARS coronavirus.
 XX
 XX WO2004092360-A2.
 XX
 PD 28-OCT-2004.
 XX
 PF 09-APR-2004; 2004WO-US011710.
 XX
 XX 10-APR-2003; 2003US-0462218P.
 PR 11-APR-2003; 2003US-0462465P.
 PR 12-APR-2003; 2003US-0462418P.
 PR 13-APR-2003; 2003US-0462748P.
 PR 14-APR-2003; 2003US-0463109P.
 PR 15-APR-2003; 2003US-0463460P.
 PR 16-APR-2003; 2003US-0463668P.
 PR 17-APR-2003; 2003US-0463983P.
 PR 18-APR-2003; 2003US-0463971P.
 PR 22-APR-2003; 2003US-0464838P.
 PR 22-APR-2003; 2003US-0464899P.
 PR 23-APR-2003; 2003US-0465273P.
 PR 24-APR-2003; 2003US-046535P.
 PR 05-MAY-2003; 2003US-0468312P.
 PR 22-MAY-2003; 2003US-0473144P.
 PR 14-AUG-2003; 2003US-0495024P.
 PR 23-SEP-2003; 2003US-0505652P.
 PR 11-OCT-2003; 2003US-0510781P.
 PR 11-DEC-2003; 2003US-0529464P.
 PR 12-JAN-2004; 2004US-0536177P.
 PR 07-APR-2004; 2004US-0560757P.
 XX
 PA (CHIR) CHIRON CORP.
 XX
 PI Rappuoli R, Masignani V, Stadler K, Gregersen J, Chien D, Han J;
 PI Polo J, Weiner A, Houghton M, Song HC, Seo MY, Donnelly JF,
 PI Klenk HD, Valiante N,
 XX
 DR WPI, 2004-766863/75.
 XX
 PT Novel isolated polypeptide e.g. spike polypeptide, Env polypeptide, of
 PT severe acute respiratory syndrome virus (SARS), useful as vaccine for
 PT SARS.
 XX
 PS Claim 59; SEQ ID NO 573; 839pp; English.
 XX
 CC The invention relates to isolated polypeptides of the severe acute
 CC respiratory syndrome (SARS) coronavirus. The polypeptides include spike
 CC (S or E2), env (E or SM), membrane (M or E1), hemagglutinin-esterase (HE
 CC or E3), and nucleocapsid (N) polypeptides, and the ORF1a and ORF1ab
 CC (replicase) polypeptides and their proteolytic fragments. The invention
 CC also relates to antibodies which recognise the polypeptides; nucleic
 CC acids encoding the SARS virus polypeptides; primers specific for SARS
 CC virus nucleic acid sequences; kits for amplifying SARS virus target
 CC nucleic acids; a double-stranded RNA molecule 10-30 nucleotides in length
 CC which is able to inactivate the SARS virus in a mammalian cell; an
 CC expression construct for recombinant expression of a SARS virus spike
 CC protein; a viral vector for in vivo delivery of a SARS virus polypeptide-
 CC encoding nucleic acid; and a mammalian cell line stably expressing a SARS
 CC viral antigen. The invention additionally provides a vaccine for the
 CC treatment or prevention of SARS comprising an inactivated SARS virus, a
 CC killed SARS virus, an attenuated SARS virus, a split SARS virus
 CC preparation, or at least one purified SARS virus antigens; methods of
 CC making inactivated SARS virus and vaccines containing it; an alpha-virus
 CC replicon particle comprising one or more SARS viral antigens; and a
 CC vaccine comprising one or more SARS virus antigens and one or more
 CC respiratory virus antigens. The invention further encompasses a method of
 CC identifying a therapeutically active agent by measuring the effect of the
 CC agent on a SARS-related enzyme, and a method of treating a SARS patient
 CC using small molecule viral inhibitors. The SARS virus polypeptides and
 CC nucleic acids can be used in the preparation and manufacture of vaccines
 CC for the treatment or prevention of SARS. The SARS virus polypeptides,
 CC antibodies against them, and SARS virus-specific primers and kits
 CC containing them are useful for diagnosing or identifying the presence of
 CC SARS in a biological sample. The present sequence represents a PCR primer

CC for amplifying a SARS coronavirus gene. Note: The sequence data for this
 CC patent did not form part of the printed specification, but was obtained
 CC in electronic format directly from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences

XX SQ Sequence 15 BP; 3 A; 4 C; 4 G; 4 T; 0 U; 0 Other;

Query Match 55.0%; Score 11; DB 1; Length 15;
 Best Local Similarity 100.0%; Pred. No. 24;
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 CTGATGTCAC 12
 |||||
 Db 4 CTCATGTCAC 14

RESULT 30
 ADL96404
 ID ADL96404 standard; DNA; 14 BP.
 XX

AC ADL96404;
 XX
 DT 20-MAY-2004 (first entry)
 XX

DE Acute myeloid leukaemia (AML) associated EST seqid 303.

XX cytostatic; gene therapy; microarray; gene expression characteristic;
 KM haematopoietic cell; haematopoiesis; myeloid leukaemia; EST;
 KM expressed sequence tag; acute myeloid leukaemia; AML; translocation; t(9;
 11); ss.
 XX

OS Homo sapiens.
 XX
 PN US2003165949-A1.

PD 04-SEP-2003.

XX 23-DEC-2002; 2002US-00329465.

PF 27-DEC-2001; 2001US-0343826P.

XX (WANG/) WANG S M.
 PA (LEES/) LEE S.
 PA (CHEN/) CHEN J.
 PA (ZHOU/) ZHOU G.
 PA (ROWL/) ROWLEY J D.

XX Wang SM, Lee S, Chen J, Zhou G, Rowley JD;
 PI WPI; 2003-863699/80.

DR New microarray for measuring gene expression characteristics of
 XX hematopoietic cells, useful for preparing a composition for diagnosing or
 PT treating myeloid leukemia.

XX Example 3; SEQ ID NO 303; 32bp; English.

XX The invention describes a microarray for measuring gene expression
 CC characteristics of hematopoietic cells comprising at least 5
 CC polynucleotides having distinct sequences. Also described are: a method
 CC of diagnosing or treating an abnormality associated with haematopoiesis;
 CC and diagnosing myeloid leukaemia in a patient. The microarray is useful
 CC for preparing a composition for diagnosing or treating myeloid leukaemia.
 CC This sequence represents an expressed sequence tag (EST) isolated from a
 CC cell of a patient with acute myeloid leukaemia with the t(9;11)
 CC translocation that results in the mixed-lineage leukaemia (MML)-AF9
 CC fusion protein.
 CC

XX Sequence 14 BP; 6 A; 2 C; 4 G; 2 T; 0 U; 0 Other;

Query Match 54.0%; Score 10.8; DB 1; Length 14;
 Best Local Similarity 85.7%; Pred. No. 22;
 Matches 12; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 4 CATGTCACATGCA 17
 |||||
 Db 1 CATGTCACAAAGGA 14

RESULT 31
 AAX31458
 ID AAX31458 standard; DNA; 15 BP.
 XX

AC AAX31458;
 XX

DT 21-MAY-1999 (first entry)
 XX

DE Tag sequence of a transcript decreased in colorectal cancer.

XX Tag sequence; colorectal cancer; pancreatic cancer; colon cancer;
 KM diagnosis; prognosis; treatment; ss.
 KM

XX Homo sapiens.
 OS

PN W09853319-A2.

PD 26-NOV-1998.

XX 20-MAY-1998; 98WO-US010277.

PF 21-MAY-1997; 97US-0047352P.

XX (UYUO) UNIV JOHNS HOPKINS.

PA Vogelstein B, Kinzler KM;
 PI WPI; 1999-070161/06.

DR Use of isolated gene transcripts - useful for developing products for the
 XX diagnosis, prognosis and treatment of cancers, particularly colon and
 PT pancreatic cancer.

XX Claim 1, Page 51; 120p; English.

XX AAX30947-31815 represent tag sequences of transcripts that are
 CC differentially expressed in colorectal cancer, in pancreatic cancer, or
 CC in both. The tag sequences can be used to identify genes by matching the
 CC tag to a gen data base member, or by using the tag sequences as probes to
 CC isolate unidentified genes from cDNA libraries. The tag sequences can
 CC also be used in a method for diagnosing colon or pancreatic cancer in a
 CC sample suspected of being neoplastic. The method comprises comparing the
 CC level of at least one transcript in a first sample of a tissue to a
 CC second sample, where the first sample is a colonic tissue suspected of
 CC being neoplastic and the second sample is a normal human colonic tissue.
 CC The transcript is identified by a tag selected from AAX30947-31815. The
 CC methods of the invention can be used in the diagnosis, prognosis and
 CC treatment of cancer

XX SQ Sequence 15 BP; 3 A; 4 C; 6 G; 2 T; 0 U; 0 Other;

Query Match 54.0%; Score 10.8; DB 1; Length 15;
 Best Local Similarity 85.7%; Pred. No. 25;
 Matches 12; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 4 CATGTCACATGCA 17
 |||||
 Db 1 CATGTCACATGCA 14

RESULT 32
 AAF51885/C
 ID AAF51885 standard; DNA; 15 BP.
 XX

AC AAF51885;
 XX

DT 30-MAR-2001 (first entry)

XX IGF-1 oligonucleotide #2845.
 DE
 XX Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
 XX cyostatic; dermatological; cardiant; virucide; ophthalmological; keloid;
 XX IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
 XX skin disorder; insulin-like Growth Factor 1 receptor; IGF-1; pilyriasis;
 XX IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
 XX growth factor mediated cell proliferation; ichthyosis; serborrhea; ruba;
 XX keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
 XX hyperneovascular condition; hyperplasia; kidney disease;
 XX neovascular condition of the retina; ss.
 OS Homo sapiens.
 XX WO200078341-A1.
 XX
 XX PD 28-DEC-2000.
 XX
 XX PF 21-JUN-2000; 2000MO-NU000693.
 XX
 XX PR 21-JUN-1999; 99US-0140345P.
 XX
 XX PA (MURD-) MURDOCH CHILDRENS RES INST.
 XX
 XX PI Wraight CJ, Werther GA, Edmondson SR;
 XX
 XX DR WPI; 2001-041421/05.
 XX
 XX PS Example 8; Page 79; 201pp; English.
 XX
 XX CC The present invention relates to a method for ameliorating the effects of
 XX skin disorders. The method comprises contacting the skin with an
 XX antisense oligonucleotide, (for insulin-like Growth Factor [IGF]-1
 XX receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of
 XX inhibiting or reducing growth factor mediated cell proliferation,
 XX inflammation and/or other disorders. The present sequence is an
 XX oligonucleotide which can be used to design the antisense
 XX oligonucleotides of the present invention (see AAF45151 and AAF45153-
 XX F45151). The method is useful for ameliorating the effects of psoriasis,
 XX ichthyosis, pilyriasis, ruba, pilaris, serborrhea, keloids, keratosis,
 XX neoplasias, scleroderma, warts, benign growths, cancers of the skin, a
 XX hyperneovascular condition such as a neovascular condition of the retina,
 XX brain or skin, growth factor-mediated malignancies, other sclerotic
 XX disease, kidney disease, hyperproliferation of the inside of blood
 XX vessels or any other hyperplasia
 XX
 XX SQ Sequence 15 BP; 4 A; 5 C; 1 G; 5 T; 0 U; 0 Other;
 XX
 XX Query Match 54.0%; Score 10.8; DB 1; Length 15;
 XX Best Local Similarity 85.7%; Pred. No. 25;
 XX Matches 12; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 XX
 XX QY 5 ATGTCACATGAT 18
 XX |||||
 XX Db 14 ATGTCACATGAT 1
 XX
 XX RESULT 33
 XX AAF51882/c
 XX ID AAF51882 standard; DNA; 15 BP.
 XX
 XX AC AAF51882;
 XX
 XX DT 30-MAR-2001 (first entry)
 XX
 XX DE IGF-1 oligonucleotide #2842.
 XX
 XX KW Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
 XX

KW cyostatic; dermatological; cardiant; virucide; ophthalmological; keloid;
 KW skin disorder; insulin-like Growth Factor 1 receptor; IGF-1; pilyriasis;
 KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
 KW growth factor mediated cell proliferation; ichthyosis; serborrhea; ruba;
 KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
 KW hyperneovascular condition; hyperplasia; kidney disease;
 KW neovascular condition of the retina; ss.
 OS Homo sapiens.
 XX WO200078341-A1.
 XX
 XX PD 28-DEC-2000.
 XX
 XX PF 21-JUN-2000; 2000MO-NU000693.
 XX
 XX PR 21-JUN-1999; 99US-0140345P.
 XX
 XX PA (MURD-) MURDOCH CHILDRENS RES INST.
 XX
 XX PI Wraight CJ, Werther GA, Edmondson SR;
 XX
 XX DR WPI; 2001-041421/05.
 XX
 XX PS Example 8; Page 79; 201pp; English.
 XX
 XX CC The present invention relates to a method for ameliorating the effects of
 XX skin disorders. The method comprises contacting the skin with an
 XX antisense oligonucleotide, (for insulin-like Growth Factor [IGF]-1
 XX receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of
 XX inhibiting or reducing growth factor mediated cell proliferation,
 XX inflammation and/or other disorders. The present sequence is an
 XX oligonucleotide which can be used to design the antisense
 XX oligonucleotides of the present invention (see AAF45151 and AAF45153-
 XX F45151). The method is useful for ameliorating the effects of psoriasis,
 XX ichthyosis, pilyriasis, ruba, pilaris, serborrhea, keloids, keratosis,
 XX neoplasias, scleroderma, warts, benign growths, cancers of the skin, a
 XX hyperneovascular condition such as a neovascular condition of the retina,
 XX brain or skin, growth factor-mediated malignancies, other sclerotic
 XX disease, kidney disease, hyperproliferation of the inside of blood
 XX vessels or any other hyperplasia
 XX
 XX SQ Sequence 15 BP; 3 A; 5 C; 1 G; 6 T; 0 U; 0 Other;
 XX
 XX Query Match 54.0%; Score 10.8; DB 1; Length 15;
 XX Best Local Similarity 85.7%; Pred. No. 25;
 XX Matches 12; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 XX
 XX QY 7 GGTCACATGATGA 20
 XX |||||
 XX Db 15 GATCAGATGATGA 2
 XX
 XX RESULT 34
 XX ABK32412
 XX ID ABK32412 standard; DNA; 15 BP.
 XX
 XX AC ABK32412;
 XX
 XX DT 23-APR-2002 (first entry)
 XX
 XX DE Human colon cancer SAGE tag #513.
 XX
 XX KW Human; colon cancer; colorectal cancer; pancreatic cancer; SAGE tag;
 XX serial analysis of gene expression; diagnostic; prognostic; probe;
 XX cancer marker; ss.
 XX
 XX OS Homo sapiens.
 XX


```
XX
PN US6333152-B1.
PD 25-DEC-2001.
XX
PF 20-MAY-1998; 98US-00081646.
XX
PR 20-MAY-1998; 98US-00081646.
XX
PA (UYJO ) UNIV JOHNS HOPKINS.
PI Vogelstein B, Kinzler KW, Zhang L, Zhou W;
XX WPI; 2002-153821/20.
DR
PT New human nucleic acid containing specific SAGE tags, useful as
XX diagnostic markers for cancer, also derived probes.
PS Disclosure; Col 57; 161pp; English.
XX
CC The invention relates to an isolated, purified human nucleic acid (1)
CC that has the same sequence as a mRNA found in humans and is a SAGE
CC (serial analysis of gene expression) tag comprising a single stranded
CC probe containing at least 10 consecutive nucleotides. SAGE tags, are
CC diagnostic and prognostic markers of cancer, especially of the colon and
CC pancreas. ABK31900-ABK32770 represent human colon and pancreatic cancer
CC SAGE tags of the invention
XX
SQ Sequence 15 BP; 3 A; 4 C; 6 G; 2 T; 0 U; 0 Other;
XX
Query Match 54.0%; Score 10.8; DB 1; Length 15;
Best Local Similarity 85.7%; Pred. No. 25;
Matches 12; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
XX
OY 4 CATGTCACATGGA 17
Db 1 CATGCCACATGGA 14
XX
RESULT 35
ADQ82962/c
ID ADQ82962 standard; DNA; 14 BP.
XX
AC ADQ82962;
XX
DT 07-OCT-2004 (first entry)
XX
DE Extended hairpin tail primer #22 for SNP detection method.
XX
KW ss; primer; single nucleotide polymorphism; SNP; amplification;
KW hairpin primer; alleles; drug resistance.
XX
OS Mycobacterium tuberculosis.
XX
PN WO2004061134-A1.
PD 22-JUL-2004.
XX
PF 24-DEC-2003; 2003WO-US041136.
XX
PR 27-DEC-2002; 2002US-0437165P.
XX
PA (UYNE-) UNIV NEW JERSEY MEDICINE & DENTISTRY.
PI Alland D, Hazbon MH;
XX WPI; 2004-553374/53.
DR
PT Detecting single nucleotide polymorphism (SNP) in an organism, useful for
PT identifying SNPs responsible for drug resistance, comprises amplifying a
PT nucleic acid sequence of an organism using a hairpin shaped primer.
XX
PS Example 1; SEQ ID NO 106; 53pp; English.
```

```
XX
CC The invention relates to a method of detecting a single nucleotide
CC polymorphism (SNP) in an organism by amplifying a nucleic acid sequence
CC of an organism using a hairpin shaped primer that discriminates between
CC different alleles by situating its 3' nucleotide at the location of a
CC SNP, and measuring threshold cycle or amplification efficiency or amount
CC of amplified product. A lower amplification efficiency or delayed
CC threshold cycle or a difference in the amount of amplified product is
CC indicative of a mismatch between the primer and the organism and a SNP in
CC the organism. The method is useful for efficiently identifying SNPs
CC responsible for drug resistance of infective organisms. The method and
CC kit are useful for analysing large number of isolates, thus providing a
CC means for comprehensive understanding of the frequency and position of
CC mutations in an organism. This sequence corresponds to an extended
XX hairpin tail primer used in the method of the invention
XX
SQ Sequence 14 BP; 4 A; 3 C; 4 G; 3 T; 0 U; 0 Other;
XX
Query Match 52.0%; Score 10.4; DB 1; Length 14;
Best Local Similarity 91.7%; Pred. No. 25;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
XX
OY 6 TGGTCACATGGA 17
Db 12 TGGTCACATGCA 1
XX
RESULT 36
ADQ82964/c
ID ADQ82964 standard; DNA; 14 BP.
XX
AC ADQ82964;
XX
DT 07-OCT-2004 (first entry)
XX
DE Extended hairpin tail primer #24 for SNP detection method.
XX
KW ss; primer; single nucleotide polymorphism; SNP; amplification;
KW hairpin primer; alleles; drug resistance.
XX
OS Mycobacterium tuberculosis.
XX
PN WO2004061134-A1.
PD 22-JUL-2004.
XX
PF 24-DEC-2003; 2003WO-US041136.
XX
PR 27-DEC-2002; 2002US-0437165P.
XX
PA (UYNE-) UNIV NEW JERSEY MEDICINE & DENTISTRY.
PI Alland D, Hazbon MH;
XX WPI; 2004-553374/53.
DR
PT Detecting single nucleotide polymorphism (SNP) in an organism, useful for
PT identifying SNPs responsible for drug resistance, comprises amplifying a
PT nucleic acid sequence of an organism using a hairpin shaped primer.
XX
PS Example 1; SEQ ID NO 108; 53pp; English.
XX
CC The invention relates to a method of detecting a single nucleotide
CC polymorphism (SNP) in an organism by amplifying a nucleic acid sequence
CC of an organism using a hairpin shaped primer that discriminates between
CC different alleles by situating its 3' nucleotide at the location of a
CC SNP, and measuring threshold cycle or amplification efficiency or amount
CC of amplified product. A lower amplification efficiency or delayed
CC threshold cycle or a difference in the amount of amplified product is
CC indicative of a mismatch between the primer and the organism and a SNP in
CC the organism. The method is useful for efficiently identifying SNPs
CC responsible for drug resistance of infective organisms. The method and
CC kit are useful for analysing large number of isolates, thus providing a
```

CC means for comprehensive understanding of the frequency and position of
 CC mutations in an organism. This sequence corresponds to an extended
 CC hairpin tail primer used in the method of the invention
 XX
 SQ Sequence 14 BP; 4 A; 3 C; 4 G; 3 T; 0 U; 0 Other;

Query Match 52.0%; Score 10.4; DB 1; Length 14;
 Best Local Similarity 91.7%; Pred. No. 25;
 Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 6 TGGTCACATGGA 17
 Db 12 TGGTCACATGCA 1

RESULT 37
 AAT36745/c
 ID AAT36745 standard; DNA; 14 BP.

AC AAT36745;

DT 22-APR-1997 (first entry)

DE Antisense oligonucleotide to cdk4 gene.

KM Antisense; phosphorylation; retinoblastoma; tumour suppressor; ribozyme;

KW antagonist; kinase; cyclin; cdk4; Rb; ss.

OS Synthetic.

PN DE19539130-A1.

PD 29-AUG-1996.

PF 20-OCT-1995; 95DE-01039130.

PR 28-FEB-1995; 95DE-01008734.

PS (PLAC) MAX PLANCK GES FOERDERUNG WISSENSCHAFTEN.

PI Straus M, Bartek J, Lukas J, Sandig V;

DR WPI; 1996-394264/40.

PT Compens. for treating tumour or other hyperplasias - contg. co-operative
 PT gene, antisense or ribozyme against kinase or cyclin or other inhibitor
 of Rb phosphorylation.

PS Claim 12; Page 4; 7pp; German.

XX The oligonucleotides AAT36744-50 represent antisense oligonucleotides
 CC targeted to genes encoding proteins that interact with, pref. by
 CC phosphorylating the retinoblastoma (Rb) protein. The oligonucleotides are
 CC used in a novel method of treating tumours by using: (a) tumour
 CC suppressor genes that co-operate with the Rb suppressor, (b) antisense or
 CC ribozymes that are antagonistic to kinases or cyclins, or (c) other
 CC compounds that inhibit Rb phosphorylation. This oligonucleotide is
 CC directed to the cyclin-dependent kinase cdk4 gene
 XX
 SQ Sequence 14 BP; 3 A; 6 C; 2 G; 3 T; 0 U; 0 Other;

Query Match 50.0%; Score 10; DB 1; Length 14;
 Best Local Similarity 100.0%; Pred. No. 29;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 7 GGTACATGG 16
 Db 14 GGTACATGG 5

RESULT 38
 AAH89017/c
 ID AAH89017 standard; DNA; 14 BP.

XX
 AC AAH89017;
 DT 09-SEP-2004 (revised)
 DT 27-FEB-2002 (first entry)
 XX
 DE Human polymorphic oligonucleotide U54701 fragment #18.

KM Human; single nucleotide polymorphic; SNP; forensic science;
 KW paternity testing; phenotypic trait; genetic mapping; animal breeding;
 KM plant breeding; ds.

OS Homo sapiens.
 OS Unidentified.

EH Key Location/Qualifiers
 FT variation 11
 FT /*tag= a
 FT /standard_name= "single nucleotide polymorphism"

XX MO200134840-A2.

XX 17-MAY-2001.

XX 10-NOV-2000; 2000WO-US030766.

XX 10-NOV-1999; 99US-0164596P.

XX (GLAX) GLAXO GROUP LTD.

XX (AFFY-) AFFYMETRIX INC.

XX Au K, Chen J, Patil N, Thomas D;

XX WPI; 2001-335945/35.

XX New polymorphic sites derived from the human genome are useful to
 PT determine sites correlating with phenotypic traits, particularly disease,
 PT and also in forensics and paternity testing.

XX Claim 69; Page 11; 43pp; English.

XX The present invention relates to human oligonucleotides comprising a
 CC single nucleotide polymorphic site (SNP: AAH8797-AAH89219). The present
 CC sequence is one such oligonucleotide. The oligonucleotides can be used in
 CC forensics, paternity testing, correlation of polymorphisms with
 CC phenotypic traits, genetic mapping of phenotypic traits and marker
 CC assisted breeding of animals and crop plants

CC Revised record issued on 09-SEP-2004 : Correction to Feature Table Key
 XX
 SQ Sequence 14 BP; 2 A; 5 C; 2 G; 5 T; 0 U; 0 Other;

Query Match 50.0%; Score 10; DB 1; Length 14;
 Best Local Similarity 100.0%; Pred. No. 29;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 8 GTCACATGGA 17
 Db 10 GTCACATGGA 1

RESULT 39
 ABH45285/c
 ID ABH45285 standard; DNA; 13 BP.

AC ABH45285;

DT 22-FEB-2002 (first entry)

DE Oligonucleotide SEQ ID NO 245262 for detecting SNP TSC0059887.

XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;

KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX Homo sapiens.
OS
XX WO200177384-A2.
PN
XX 18-OCT-2001.
PD
XX 06-APR-2001; 2001WO-IB000713.
PF
XX 07-APR-2000; 2000DE-01019173.
PR
XX (EPIG-) EPIGENOMICS AG.
PA
XX Olek A, Piepenbrock C, Berlin K;
PI
XX WPI; 2001-657177/75.
DR
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
PS Claim 1; SEQ ID NO 245262; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABP00010-ABP99989, ABH00010-ABH99989 and ABH00010-ABH2073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
SQ Sequence 13 BP; 4 A; 5 C; 1 G; 3 T; 0 U; 0 Other;
Query Match 49.0%; Score 9.8; DB 1; Length 13;
Best Local Similarity 84.6%; Pred. No. 27;
Matches 11; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 6 TGGTCACATGGAT 18
Db 13 TGGTAACGTGGAT 1
RESULT 40
ABH45284
ID ABH45284 standard; DNA; 13 BP.
XX
AC ABH45284;
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 245261 for detecting SNP TSC0059887.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
OS Homo sapiens.
XX
XX WO200177384-A2.
PN
XX 18-OCT-2001.
PD
XX 06-APR-2001; 2001WO-IB000713.
PF
XX 07-APR-2000; 2000DE-01019173.
PR
XX (EPIG-) EPIGENOMICS AG.
PA

XX
PI Olek A, Piepenbrock C, Berlin K;
XX
DR WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
XX Claim 1; SEQ ID NO 245261; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABP00010-ABP99989, ABH00010-ABH99989 and ABH00010-ABH2073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
SQ Sequence 13 BP; 3 A; 1 C; 5 G; 4 T; 0 U; 0 Other;
Query Match 49.0%; Score 9.8; DB 1; Length 13;
Best Local Similarity 84.6%; Pred. No. 27;
Matches 11; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 6 TGGTCACATGGAT 18
Db 1 TGGTAACGTGGAT 13
RESULT 41
ABH28185/c
ID ABH28185 standard; DNA; 13 BP.
XX
AC ABH28185;
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 228162 for detecting SNP TSC0055641.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
OS Homo sapiens.
XX
XX WO200177384-A2.
PN
XX 18-OCT-2001.
PD
XX 06-APR-2001; 2001WO-IB000713.
PF
XX 07-APR-2000; 2000DE-01019173.
PR
XX (EPIG-) EPIGENOMICS AG.
PA
XX Olek A, Piepenbrock C, Berlin K;
PI
XX WPI; 2001-657177/75.
DR
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
XX Claim 1; SEQ ID NO 228162; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)

CC	and cytosine methylation status in chemically pretreated genomic DNA. The
CC	oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC	range of diseases including immune system, gastrointestinal, respiratory,
CC	central nervous system, cardiovascular and metabolic disorders. The
CC	oligonucleotides are also used for detecting cell type differentiation. ABC00010
CC	-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
CC	represent the oligonucleotides described in the invention. NOTE: The sequence
CC	data for this patent did not form part of the printed specification, but
CC	was obtained in electronic format from WIPO at
CC	ftp.wipo.int/pub/published_pct_sequences
CC	
XX	Sequence 13 BP; 4 A; 5 C; 1 G; 3 T; 0 U; 0 Other;
XX	
XX	Query Match 49.0%; Score 9.8; DB 1; Length 13;
XX	Best Local Similarity 84.6%; Pred. No. 27;
XX	Matches 11; Conservative 0; Mismatches 2; Indels 0; Gaps 0
XX	
XX	8 GTGACATGGATGA 20
XX	13 GTTACGTGGATGA 1
XX	
XX	RESULT 42
ID	ABH28184
XX	ABH28184 standard; DNA; 13 BP.
AC	
XX	ABH28184;
XX	
DT	22-FEB-2002 (first entry)
DE	
XX	Oligonucleotide SEQ ID NO 228161 for detecting SNP TSC0055641.
XX	
XX	SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KM	peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KM	central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX	
OS	Homo sapiens.
XX	
XX	WO200177384-A2.
PN	
XX	18-OCT-2001.
PD	
XX	06-APR-2001; 2001WO-1B000713.
PF	
XX	07-APR-2000; 2000DE-01019173.
PR	
XX	(EPIG-) EPIGENOMICS AG.
PA	
XX	Olek A, Piepenbrock C, Berlin K;
PI	
XX	WPI; 2001-657177/75.
DR	
XX	
PT	Set of oligonucleotides, useful for diagnosis and cell typing, is
PT	designed to detect single-nucleotide polymorphisms and cytosine
PT	methylation status.
XX	
XX	Claim 1; SEQ ID NO 228161; 29pp + Sequence Listing; German.
XX	
XX	This invention describes novel oligonucleotide primers or peptide nucleic
CC	acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC	and cytosine methylation status in chemically pretreated genomic DNA. These
CC	oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC	range of diseases including immune system, gastrointestinal, respiratory,
CC	central nervous system, cardiovascular and metabolic disorders. The
CC	oligonucleotides are also used for detecting cell type differentiation. ABC00010
CC	-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
CC	represent the oligonucleotides described in the invention. NOTE: The sequence
CC	data for this patent did not form part of the printed specification, but
CC	was obtained in electronic format from WIPO at
CC	ftp.wipo.int/pub/published_pct_sequences
XX	
XX	Sequence 13 BP; 3 A; 1 C; 5 G; 4 T; 0 U; 0 Other;

OY	8	GTCACATGATGA	20
Db	1	GTTACTGTGATGA	13
RESULT 43			
ID	AAK70553/C	standard; DNA; 14 BP.	
XX	AAK70553;		
AC			
XX			
DT	25-MAR-2003	(revised)	
DT	29-APR-1991	(first entry)	
DE	Sequence of probe which corresponds to the AA sequence W-N-Y-L-D (515-		
DE	519) of human tissue plasminogen activator (TPA).		
XX			
KW	Thrombolytic; enzyme; protease;	ss.	
XX			
OS	Homo sapiens.		
XX			
FN	EP211260-A.		
PD	25-FEB-1987.		
XX			
PF	09-JUL-1986;	86EP-00109385.	
XX			
PR	10-JUL-1985;	85JP-00152810.	
PR	31-JAN-1986;	86JP-00020469.	
PR	26-APR-1986;	86JP-00097481.	
XX			
PA	(KANF) KANECAFUCHI KAGAKU KOGYO KK.		
PA	(KANF-) KANECAFUCHI.		
PI	Kakutani T, Matsumoto K, Yahara H, Maruyama H, Kawaharada H;		
PI	Matanabe K;		
DR			
DR	WPI; 1987-051507/08.		
PT	New chromosomal DNA coding for human tissue plasminogen activator -		
PT	useful in expression vectors for high yield prodn. of activator by large		
PT	scale suspension culture.		
XX			
PS	Example; p29; 70pp; English.		
CC	The probe is used in an example to exemplify the cloning of TPA gene.		
CC	(Updated on 25-MAR-2003 to correct PA field.)		
XX			
SQ	Sequence 14 BP; 4 A; 4 C; 4 G; 2 T; 0 U; 0 Other;		
OY	3 TCATGTCACATG	15	
Db	14 TCACGTCGATG	2	
Query Match 49.0%; Score 9.8; DB 1; Length 14;			
Best Local Similarity 84.6%; Pred.No. 31;			
Matches 11; Conservative 0; Mismatches 2; Indels 0; Gaps 0;			
RESULT 44			
ID	AAK19072/C		
ID	AAK19072 standard; DNA; 13 BP.		
XX	AAK19072;		
AC			
XX			
DT	13-MAY-1999	(first entry)	
XX			
DE	Human PPAR-gamma-3-E-box SEQ ID NO:41.		
XX			


```

DE Polyamide-binding target oligonucleotide I, SEQ ID NO:12.
XX
XX Gene expression; transcription factor inhibitor; DNA footprinting; ss.
XX
XX Synthetic.
XX
XX Key Location/Qualifiers
XX misc_binding 1..13
XX /*tag= a
XX /bound_moiety= "Bases 13-1 of SEQ ID NO:13"
XX 7..10
XX /*tag= b
XX /bound_moiety= "Imidazole- and pyrrole-containing
XX polyamide chain"
XX /note= "Polyamide chain binds to the minor groove of the
XX dedNA in a sequence-specific manner"
XX
XX
XX US6958240-B1.
XX
XX 25-OCT-2005.
XX
XX 12-AUG-1999; 99US-00374704.
XX
XX 26-FEB-1996; 96US-00607078.
XX 20-FEB-1997; 97MO-US003332.
XX 08-APR-1997; 97US-0043444P.
XX 16-APR-1997; 97US-0042022P.
XX 21-APR-1997; 97US-00837524.
XX 08-MAY-1997; 97US-00853522.
XX
XX (CALY ) CALIFORNIA INST OF TECHNOLOGY.
XX
XX Baird EE, Dervan PB;
XX WPI; 2005-807194/82.
XX
XX Novel polyamides comprising amino acids having N-methylpyrrole, 3-hydroxy
XX N-methylpyrrole and/or N-methylimidazole groups and positive patches
XX having rigid groups adjacent to positively charged groups, useful for
XX inhibiting gene expression.
XX
XX Example 4; SEQ ID NO 12; 43pp; English.
XX
XX The invention relates to a polyamide molecule which specifically binds to
XX a predetermined site in the minor groove of a double-stranded DNA
XX molecule in a sequence-specific manner and which contains an alpha-amino
XX acid domain (termed the "positive patch") which contacts nucleotides in
XX the major groove and thus inhibits the activity of major groove DNA-
XX binding proteins. The polyamide molecule comprises one or more amino
XX acid containing a N-methylpyrrole, 3-hydroxy-N-methylpyrrole and/or N-
XX methylimidazole group, where one or more of these amino acid(s) are not
XX alpha-amino acids, and a positive patch consisting of a 2 amino acid
XX rigid group adjacent to a positively charged group (such as a positively
XX charged amino acid). The polyamides of the invention inhibit gene
XX expression by displacing or preventing the function of DNA-binding
XX proteins such as transcription factors. The invention also relates to a
XX method of inhibiting gene expression by contacting a regulatory sequence
XX of a gene with a polyamide of the invention. The polyamide of the
XX invention is useful for inhibiting the binding and activity of DNA-
XX binding proteins, thus inhibiting gene expression. Sequences AED6939-
XX AED6940 represent the two strands of a double-stranded oligonucleotide
XX which is capable of being bound by a polyamide of the invention. This
XX oligonucleotide was used in DNase I footprinting in an example of the
XX invention to determine the optimum positive patch peptide sequence for
XX inhibition of protein binding.
XX
XX Sequence 13 BP; 5 A; 2 C; 2 G; 4 T; 0 U; 0 Other;
XX
XX Query Match 47.0%; Score 9.4; DB 1; Length 13;
XX Best Local Similarity 90.9%; Pred. No. 31;
XX Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
XX
XX 3 TCATGTCACA 13

```

```

DB Db
XX 3 TCATGTCACA 13
XX
XX RESULT 47
XX AED6940/c
XX ID AED6940 strand; DNA; 13 BP.
XX
XX AED6940;
XX
XX 12-JAN-2006 (first entry)
XX
XX Polyamide-binding target oligonucleotide I, SEQ ID NO:13.
XX
XX Gene expression; transcription factor inhibitor; DNA footprinting; ss.
XX
XX Synthetic.
XX
XX Key Location/Qualifiers
XX misc_binding 1..13
XX /*tag= a
XX /bound_moiety= "Bases 13-1 of SEQ ID NO:12"
XX 4..13
XX /*tag= d
XX /bound_moiety= "Imidazole- and pyrrole-containing
XX polyamide chain with Arg-Pro-Arg-Arg-Arg positive
XX patch"
XX /note= "Polyamide chain binds to the minor groove of the
XX dedNA in a sequence-specific manner"
XX 4..10
XX /*tag= c
XX /bound_moiety= "Imidazole- and pyrrole-containing
XX polyamide chain with Arg-Pro-Arg positive patch"
XX /note= "Polyamide chain binds to the minor groove of the
XX dedNA in a sequence-specific manner"
XX
XX misc_binding 4..9
XX /*tag= b
XX /bound_moiety= "Imidazole- and pyrrole-containing
XX polyamide chain"
XX /note= "Polyamide chain binds to the minor groove of the
XX dedNA in a sequence-specific manner"
XX
XX
XX US6958240-B1.
XX
XX 25-OCT-2005.
XX
XX 12-AUG-1999; 99US-00374704.
XX
XX 26-FEB-1996; 96US-00607078.
XX 20-FEB-1997; 97MO-US003332.
XX 08-APR-1997; 97US-0043444P.
XX 16-APR-1997; 97US-0042022P.
XX 21-APR-1997; 97US-00837524.
XX 08-MAY-1997; 97US-00853522.
XX
XX (CALY ) CALIFORNIA INST OF TECHNOLOGY.
XX
XX Baird EE, Dervan PB;
XX WPI; 2005-807194/82.
XX
XX Novel polyamides comprising amino acids having N-methylpyrrole, 3-hydroxy
XX N-methylpyrrole and/or N-methylimidazole groups and positive patches
XX having rigid groups adjacent to positively charged groups, useful for
XX inhibiting gene expression.
XX
XX Example 4; SEQ ID NO 13; 43pp; English.
XX
XX The invention relates to a polyamide molecule which specifically binds to
XX a predetermined site in the minor groove of a double-stranded DNA
XX molecule in a sequence-specific manner and which contains an alpha-amino
XX acid domain (termed the "positive patch") which contacts nucleotides in
XX the major groove and thus inhibits the activity of major groove DNA-
XX

```

CC binding proteins. The polyamide molecule comprises one or more amino
CC acids containing a N-methylpyrrole, 3-hydroxy-N-methylpyrrole and/or N-
CC methylindazole group, where one or more of these amino acid(s) are not
CC alpha-amino acids, and a positive patch consisting of a 2 amino acid
CC rigid group adjacent to a positively charged group (such as a positively
CC charged amino acid). The polyamides of the invention inhibit gene
CC expression by displacing or preventing the function of DNA-binding
CC proteins such as transcription factors. The invention also relates to a
CC method of inhibiting gene expression by contacting a regulatory sequence
CC of a gene with a polyamide of the invention. The polyamide of the
CC invention is useful for inhibiting the binding and activity of DNA-
CC binding proteins, thus inhibiting gene expression. Sequences AED6939-
CC AED6940 represent the two strands of a double-stranded oligonucleotide
CC which is capable of being bound by a polyamide of the invention. This
CC oligonucleotide was used in DNase I footprinting in an example of the
CC invention to determine the optimum positive patch peptide sequence for
CC inhibition of protein binding.

XX SQ Sequence 13 BP; 4 A; 2 C; 2 G; 5 T; 0 U; 0 Other;

Query Match 47.0%; Score 9.4; DB 1; Length 13;
Best Local Similarity 90.9%; Pred. No. 31;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 TCATGTCACA 13
|||||||
Db 11 TCATGTCATTA 1

RESULT 48
AAQ86597/c.
ID AAQ86597 standard; DNA; 12 BP.

XX AC AAQ86597;
XX 21-DEC-1995 (first entry)
XX
XX Human mitochondrial D-loop region DNA probe 6-10.

DE Tiling strategy; immobilised nucleic acid probe array; mitochondrial DNA;
XX D-loop region; biological chip; hybridisation fingerprint;
XX
XX Interrogation position; ss.

OS Synthetic.

XX Key Location/Qualifiers
XX modified_base 12
XX /tag= a
XX /note="3'-end of probe is covalently attached to chip
XX surface"

XX W09511995-A1.

XX 04-MAY-1995.

XX 26-OCT-1994; 94WO-US012305.

XX 26-OCT-1993; 93US-00143312.

XX 02-AUG-1994; 94US-00284064.

XX (AFPM-) AFFYMAX TECHNOLOGIES NV.

XX Chee M, Cronin MT, Fodor SP, Gingeras TR, Huang XC, Hubbell EA,
XX Lipshutz RJ, Lobbman PE, Miyada CG, Morris MS, Shah N, Sheldon BL,
XX WPI; 1995-178887/23.

XX New arrays of oligo:nucleotide probes - used for comparing known
XX sequences with variants for detection of mutation(s) and sequencing.
XX
XX Disclosure; Page 108; 223pp; English.

XX A DNA chip was prepared for analysing sequences contained in a 1.3kb

CC fragment of human mitochondrial DNA from the D-loop region, the most
CC polymorphic region of human mitochondrial DNA. The chip comprised a set
CC of 268 overlapping oligonucleotide probes (see AAQ88421-Q88684) of
CC varying length (9-14 nucleotides) with varying overlaps arranged in a 1cm
CC x 1cm array. Each position in the sequence was represented by at least
CC one probe (usually 2 or more). DNA was amplified from six human donors
CC and then transcribed to give the 1.3kb RNA transcripts which were
CC fragmented and hybridised to the chip. For each individual, a unique
CC hybridisation fingerprint was produced on the chip; all differences could
CC be correlated with differences in the cloned genomic DNA sequence

XX SQ Sequence 12 BP; 2 A; 3 C; 4 G; 3 T; 0 U; 0 Other;

Query Match 45.0%; Score 9; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 30;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 12 CATGATGA 20
|||||||
Db 11 CATGATGA 3

RESULT 49
AAV32269
ID AAV32269 standard; DNA; 12 BP.

XX AC AAV32269;
XX 18-AUG-1998 (first entry)
XX

XX Random primed reverse transcription PCR primer 114.

XX RT-PCR; primer; amplification; reverse transcription; RNA fingerprinting;
XX differential gene expression; ss.

OS Synthetic.

XX W09813521-A1.

XX 02-APR-1998.

XX 26-SEP-1997; 97WO-BP005290.

XX 27-SEP-1996; 96GB-00020216.

XX (SANR-) FOND CENT SAN RAFFAELLE DEL MONTE TABOR.

XX Conaalez G, Fesce R;

XX WPI; 1998-230725/20.

XX Differential screening of gene expression by reverse transcription
XX polymerase chain reaction - uses random priming with primers selected for
XX high efficiency and selectivity by computer screening of database(s).

XX Claim 9; Page 24; 37pp; English.

XX The invention provides a method for the differential screening of gene
XX expression by random primed reverse transcription PCR (RT-PCR). The
XX primer sequences are generated by stimulating PCR reactions on non-
XX redundant mammalian nucleotide sequence databank entries containing at
XX least 1,000 bp of coding region. The primers selected, such as the
XX present one, had to meet various criteria such as having an efficiency
XX index between 2-10, having a selectivity index higher than 1, being 12 bp
XX long i.e. 8 C or G and 4 T or A, and each primer differed from the others
XX in at least 5 of the 8 bases at the 3'-end. The invention claims the
XX selected primers make it possible to use internally primed, PCR-based RNA
XX fingerprinting for simple, exhaustive and systematic analysis of
XX differential gene expression as an advantageous alternative to
XX differential display. The method can also be useful for isolating new
XX coding sequences and to compare known and new genes
XX
XX Sequence 12 BP; 1 A; 3 C; 4 G; 3 T; 0 U; 1 Other;

KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
 XX
 OS Homo sapiens.
 XX
 PN WO200177384-A2.
 XX
 PD 18-OCT-2001.
 XX
 PF 06-APR-2001; 2001WO-IB000713.
 XX
 PR 07-APR-2000; 2000DE-01019173.
 XX
 PA (EPIC-) EPICENOMICS AG.
 XX
 PI Olek A, Piepenbrock C, Berlin K;
 XX
 DR WPI; 2001-657177/75.
 XX
 PT Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single-nucleotide polymorphisms and cytosine
 PT methylation status.
 XX
 PS Claim 1; SEQ ID NO 308269; 29pp + Sequence listing; German.
 XX
 CC This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation. ABC00010
 CC -ABG9989, ABF00010-ABF9989, ABH00010-ABH9989 and ABJ00010-ABJ82073
 CC represent the oligomers described in the invention. NOTE: The sequence
 CC data for this patent did not form part of the printed specification, but
 CC was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences
 XX
 SQ Sequence 12 BP; 2 A; 7 C; 0 G; 3 T; 0 U; 0 Other;
 XX
 Query Match 44.0%; Score 8.8; DB 1; Length 12;
 Best Local Similarity 83.3%; Pred. No. 33;
 Matches 10; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 1 CCTCATGTCAC 12
 DB 1 CCTCATGTCAC 12
 XX
 RESULT 53
 ADM1578
 ID ADM1578 standard; RNA; 12 BP.
 XX
 AC ADM1578;
 XX
 DT 24-MAR-2005 (first entry)
 XX
 DE siRNA production-related p4 box RNA SeqID15.
 XX
 KW short interfering RNA; siRNA; RNA interference; ribozyme; ss.
 XX
 OS Unidentified.
 OS Synthetic.
 XX
 FH Key Location/Qualifiers
 FT misc_binding 1..4
 FT /tag= b
 FT /bound_moiety= "itself"
 FT /note= "Binds nucleotides 12-9 of itself"
 FT misc_binding 9..12
 FT /tag= b
 FT /bound_moiety= "itself"

FT /note= "Binds nucleotides 4-1 of itself"
 XX
 XX WO2005001039-A2.
 PN
 XX
 PD 06-JAN-2005.
 XX
 PP 28-MAY-2004; 2004WO-US017034.
 XX
 PR 29-MAY-2003; 2003US-0474001P.
 XX
 PA (UYCR-) UNIV CREIGHTON.
 XX
 PI Soukup GA, Kertsburg A;
 XX
 DR WPI; 2005-075534/08.
 XX
 PT Producing a small, interfering RNA (siRNA) by providing a first or second
 PT RNA construct comprising a first or second ribozyme operably linked to a
 PT sense or an antisense strand, respectively of an siRNA.
 XX
 PS Example 1; SEQ ID NO 15; 43pp; English.
 XX
 CC This invention relates to a novel method of producing a small interfering
 CC RNA (siRNA). The method comprises providing a first RNA construct
 CC comprising a first ribozyme operably linked to a sense and antisense
 CC strand of an siRNA and placing the first and second RNA constructs under
 CC conditions where the first and second ribozyme catalyze the cleavage of
 CC the sense and antisense strands of the siRNA from the first and second
 CC RNA constructs. The present sequence is that of a p4 box RNA which was
 CC used during the exemplification of the method of the invention.
 XX
 SQ Sequence 12 BP; 5 A; 2 C; 3 G; 0 T; 2 U; 0 Other;
 XX
 Query Match 44.0%; Score 8.8; DB 1; Length 12;
 Best Local Similarity 66.7%; Pred. No. 33;
 Matches 8; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
 QY 4 CATGTCACATG 15
 DB 1 CAUGGAAACAU 12
 XX
 RESULT 54
 AAQ24034
 ID AAQ24034 standard; DNA; 12 BP.
 XX
 AC AAQ24034;
 XX
 DT 25-MAR-2003 (revised)
 DT 21-SEP-1992 (first entry)
 XX
 DE Herpesvirus inhibiting antisense oligonucleotide.
 XX
 KW HSV; treatment; diagnosis; HSV-1; HSV-2; varicella zoster;
 KW Epstein-Barr virus; cytomegalovirus; CMV; HIV; AIDS.
 XX
 OS Synthetic.
 OS
 PN WO9205284-A.
 PN
 PD 02-APR-1992.
 XX
 PP 18-SEP-1991; 91WO-US006646.
 XX
 PR 21-SEP-1990; 90US-00586185.
 XX
 PA (UYMA-) UNIV MARYLAND BALTIMORE.
 PA (UYUO) UNIV JOHNS HOPKINS.
 XX
 PI Aurelian L, Tao P;
 XX
 DR WPI; 1992-132145/16.
 XX

PT New anti:sense oligo:nucleotide(s) for inhibiting HSV - also used for
PT diagnosis and for inhibiting HIV activation by herpes virus.
XX
PS Claim 1; Page 38; 77pp; English.
XX
CC The sequence is that of an antisense oligonucleotide which can be used
CC for inhibiting growth or replication of herpesviruses. It corresponds to
CC an antisense sequence of a herpesvirus site, pref. in a gene that is
CC essential for synthesising nucleic acids e.g. the immediate early genes
CC or Vmw65. It can be prep'd. by solid phase triester or phosphor- amidite
CC chemistry or by recombinant DNA techniques. It can be used for treating
CC infection by herpesviruses, e.g. herpes simplex type 1 (HSV-1) and type 2
CC (HSV-2), varicella zoster (VSV), Epstein-Barr (EBV), cytomegalovirus
CC (CMV), human herpesvirus 6 (HHV-6) and 7 (HHV-7). In addition, the
CC inhibition of herpesvirus growth or replication may indirectly forestall
CC the progression of events from HIV exposure to the clinical manifestation
CC of AIDS. It may also be useful in the detection, diagnosis and
CC manipulation of herpes virus. See also AAQ3764-Q23788 and AAQ24014-
XX Q24044. (Updated on 25-MAR-2003 to correct PA field.)
XX
SQ Sequence 12 BP; 5 A; 3 C; 2 G; 2 T; 0 U; 0 Other;
XX
Query Match 42.0%; Score 8.4; DB 1; Length 12;
Best Local Similarity 90.0%; Pred. No. 37;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
XX
QY 4 CATGCTCACA 13
DB 2 CATGTTACA 11
XX
RESULT 55
AAQ30497/C
ID AAQ30497 standard; DNA; 12 BP.
XX
XX AAQ30497;
AC
XX
XX 25-MAR-2003 (revised)
DT 19-MAR-1993 (first entry)
XX
XX Adenovirus major late transcription factor element under control of TCRE.
DE
XX
XX Transcriptional control recognition element; decoy; cellular RNA;
KW promoter; hormone receptor element; viral; liver; tissue; viral;
KM proliferation; linker; NP-1; ss.
XX
OS Synthetic.
XX
XX WO9218522-A1.
PN
XX
XX 29-OCT-1992.
PD
XX
XX 17-APR-1992; 92WO-US003205.
PF
XX
XX 18-APR-1991; 91US-00687337.
PR
XX
XX (SALK) SALK INST BIOLOGICAL STUDIES.
PA
XX
XX Chu BC, Orgel L;
PI
XX
XX WPI; 1992-382035/46.
DR
XX
XX New oligo-nucleotide(s) config. transcription control recognition element
PT - stabilised by covalent bonding of two DNA strands, act as decoys for
PT regulatory protein to modulate specific RNA.
XX
XX
XX Disclosure; Page 6; 41pp; English.
XX
XX Transcriptional control recognition element recognition sequences may be
CC recognised by control proteins and are involved in either enhancing or
CC repressing transcription of associated sequences. TCR sequences include
CC promoter elements, hormone receptor elements, viral, cellular, liver or
CC tissue elements, etc. The sequence represents an exemplary viral and

CC cellular element; the adenovirus major late transcription factor. A
CC typical application of the TCRE recognising oligonucleotides is
CC inhibition of viral proliferation. See also AAQ30472-518. (Updated on 25-
CC MAR-2003 to correct PN field.)
XX
SQ Sequence 12 BP; 2 A; 5 C; 4 G; 1 T; 0 U; 0 Other;
XX
Query Match 42.0%; Score 8.4; DB 1; Length 12;
Best Local Similarity 90.0%; Pred. No. 37;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
XX
QY 7 GGTCACATGG 16
DB 12 GGTCACGTGG 3
XX
RESULT 56
AAQ52946/C
ID AAQ52946 standard; RNA; 12 BP.
XX
XX AAQ52946;
AC
XX
XX 25-MAR-2003 (revised)
DT 26-MAY-1994 (first entry)
XX
XX Herpes simplex virus target sequence 24.
DE
XX
XX RNA; enzyme; enzymatic RNA molecule; ERM; cleave; RNA; mRNA; hnRNA;
KW picornavirus; HIV; immunodeficiency virus; hepatitis B virus; HBV;
KW papilloma virus; HPV; Epstein-Barr virus; EBV; TGLV;
KW T-cell leukaemia virus; hepatitis C virus; HCV; cytomegalovirus;
KW influenza virus; HSV; herpes simplex virus; vector; immune response;
KW antibody; ribozyme; viral RNA; treatment; ss.
XX
XX
OS Synthetic.
XX
XX WO9232569-A1.
PN
XX
XX 25-NOV-1993.
PD
XX
XX 29-APR-1993; 93WO-US004020.
PF
XX
XX 11-MAY-1992; 92US-00862689.
PR 14-MAY-1992; 92US-00862712.
PR 14-MAY-1992; 92US-00862713.
PR 14-MAY-1992; 92US-00862714.
PR 14-MAY-1992; 92US-00862823.
PR 14-MAY-1992; 92US-00862824.
PR 14-MAY-1992; 92US-00862866.
PR 14-MAY-1992; 92US-00862888.
PR 14-MAY-1992; 92US-00862889.
PR 14-MAY-1992; 92US-00862921.
PR 14-MAY-1992; 92US-00862922.
PR 14-MAY-1992; 92US-00863823.
PR 14-MAY-1992; 92US-00863849.
PR 14-MAY-1992; 92US-00864073.
PR 14-MAY-1992; 92US-00864074.
PR 14-MAY-1992; 92US-00864333.
PR 14-MAY-1992; 92US-00864422.
PR 14-MAY-1992; 92US-00864431.
PR 14-MAY-1992; 92US-00864436.
PR 14-MAY-1992; 92US-00864521.
PR 31-JUL-1992; 92US-00923738.
PR 26-AUG-1992; 92US-00935854.
PR 26-AUG-1992; 92US-00936086.
PR 18-SEP-1992; 92US-00948359.
PR 15-OCT-1992; 92US-00963322.
PR 07-DEC-1992; 92US-00967129.
PR 07-DEC-1992; 92US-00967130.
PR 07-DEC-1992; 92US-00967133.
XX
XX
XX (RIBO-) RIBOZYME PHARM INC.
PA
XX

PI Draper KG, Dudycz LW, Mcswigen JA, Macejak DG, Holeczek JU,
PI Mamone JA;
XX
XX WPI; 1993-386599/48.
DR
XX Enzymatic RNA molecules - used to inhibit viral replication, infection
PT and gene expression.
XX
PS Claim 5; Fig 15; 287pp; English.
CC The sequences (AA052923-Q53037) are pref. herpes simplex virus target
CC complements for enzymatic RNA molecules. The RNA molecules are
CC complementary to a substrate binding region in the specified gene target.
CC They also have enzymatic activity, in that they specifically cleave RNA
CC in the target. The ERMs interfere with viral replication and therefore
CC have anti-viral properties. They can be used to attenuate viruses to be
CC used in vaccines. (Updated on 25-MAR-2003 to correct PN field.) (Updated
CC on 25-MAR-2003 to correct PR field.) (Updated on 25-MAR-2003 to correct
CC PI field.)
XX
SQ Sequence 12 BP; 2 A; 4 C; 4 G; 0 T; 2 U; 0 Other;
Query Match 42.0%; Score 8.4; DB 1; Length 12;
Best Local Similarity 90.0%; Pred. No. 37;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 3 TCATGCTCAC 12
Db 12 TCATGGCCAC 3
RESULT 57
AA259958/C
ID AA259958 standard; DNA; 12 BP.
XX
XX AA259958;
AC
XX
DT 19-APR-2000 (first entry)
XX
DE Adenovirus Ad5 major late promoter (MLP) upstream promoter element (UPB).
XX
XX Major late promoter; MLP; mutation; upstream promoter element; UPB;
KM recombinant adenovirus; B1 region deficiency; gene therapy;
KM replication incompetent; ds.
XX
OS Mastadenovirus.
XX
XX WO200000628-A1.
PN
XX
PD 06-JAN-2000.
XX
PP 24-JUN-1999; 99WO-US014333.
XX
XX 26-JUN-1998; 98US-00105515.
PR
XX
XX (GENV-) GENVEC INC.
PA
XX
XX Brough DE, Kovsed I;
PI
XX
DR WPI; 2000-147271/13.
XX
PT Novel replication-defective adenoviruses with a mutated major late
PT promoter used to study viral molecular genetics and as viral vectors for
PT genetic transfer.
XX
PS Disclosure; Page 18; 23pp; English.
XX
CC The invention relates to a recombinant adenovirus comprising a genome
CC with a deficiency in the B1 region and a mutation in the major late
CC promoter (MLP), so that the MLP is less active within a cell other than a
CC packaging cell. The recombinant adenoviruses are highly useful in
CC biological research. They can be used to study viral molecular genetics
CC and cytotoxicity, and to investigate the cell biology of viral growth and

CC infection. They can also be used to investigate molecular and cellular
CC biology of gene expression and regulation in novel genetic backgrounds,
CC e.g., interaction of gene products, ability of transcription factors to
CC transregulate gene expression via promoter, or enhancer elements
CC engineered into the adenovirus. The adenoviruses are also useful as gene
CC transfer vehicles, e.g., to introduce transgenes into tissues or cells,
CC and may thus be used as gene therapy vectors. The recombinant
CC adenoviruses can be grown without the presence of DNA complementary to
CC the wild type adenoviral MLP, substantially reducing the probability for
CC generating replication competent adenovirus (RCA). In addition, because
CC the viruses have a MLP which greatly attenuates 11-15 gene expression in
CC nonpermissive host cells, they are less able than first generation
CC vectors to express late viral gene products in a host cell. Sequences
CC AA259957-Z59960 represent promoter elements of the MLP of adenovirus
CC serotype 5 (Ad5). The present sequence represents the upstream promoter
CC element (UPB), which is located 63 bp upstream of the transcriptional
CC start site
XX
SQ Sequence 12 BP; 2 A; 5 C; 4 G; 1 T; 0 U; 0 Other;
Query Match 42.0%; Score 8.4; DB 1; Length 12;
Best Local Similarity 90.0%; Pred. No. 37;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 7 GGTCAATGG 16
Db 12 GGTCACTGG 3
RESULT 58
AAA30866
ID AAA30866 standard; DNA; 12 BP.
XX
XX AAA30866;
AC
XX
DT 19-SEP-2000 (first entry)
XX
DE Fragment of a plasmid for expressing a ubiquitin monomer.
XX
XX Ubiquitin monomer; protein production; plant cell; ubiquitin promoter;
KM plasmid fragment; ss.
XX
XX Unidentified.
OS
XX
XX WO200036129-A1.
PN
XX
PD 22-JUN-2000.
XX
PP 11-DEC-1998; 98WO-SG000103.
XX
XX 11-DEC-1998; 98WO-SG000103.
PR
XX
XX (MOLE-) INST MOLECULAR AGROBIOLOGY.
PA
XX
XX Fang R, Wu J, Chen X;
PI
XX
DR WPI; 2000-431604/37.
XX
PT Production of desired protein in plants or plant cells by linking a
PT ubiquitin monomer coding sequence upstream of the gene encoding the
PT desired protein.
XX
PS Example 2; Page 20; 42pp; English.
XX
CC This sequence represents a fragment of a plasmid expressing a fusion
CC construct encoding a fusion protein having a ubiquitin monomer linked to
CC a protein of interest. The invention relates to a method for enhancing
CC production of a desired protein in a plant or plant cell by inserting a
CC nucleic acid (NA) encoding a ubiquitin monomer upstream of a NA encoding
CC the desired protein, where the fusion construct encodes a fusion protein
CC and expression is not controlled by the ubiquitin promoter. The invention
CC also relates to a NA acid vector a NA vector able to transform a plant
CC cell, that comprises NA encoding a fusion protein having a ubiquitin

CC monomer linked to a protein of interest and further, where expression of
 CC the fusion construct is not under control of a ubiquitin promoter. The
 CC construct allows enhanced production of the desired protein in plants or
 CC plant cells
 XX
 SQ Sequence 12 BP; 3 A; 3 C; 2 G; 2 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 12;
 Best Local Similarity 90.0%; Pred. No. 37;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 8 GTCACATGGA 17
 |||||
 Db 2 GTCGATGGA 11

RESULT 59
 AB148155/c
 ID AB148155 standard; DNA; 12 BP.

AC AB148155;
 XX
 DT 22-FEB-2002 (first entry)

XX Oligonucleotide primer SEQ ID NO 348128 for detecting SNP TSC0045459.

XX SNP, single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.

XX Homo sapiens.

XX WO200177384-A2.

XX 18-OCT-2001.

XX 06-APR-2001; 2001WO-IB000713.

XX 07-APR-2000; 2000DE-01019173.

XX (EPIC-) EPIGENOMICS AG.

XX Olek A, Piepenbrock C, Berlin K;

XX WPI; 2001-657177/75.

XX Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single-nucleotide polymorphisms and cytosine
 PT methylation status.

XX Claim 1; SEQ ID NO 348128; 29pp + Sequence Listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation. ABC00010
 CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073
 CC represent the oligomers described in the invention. NOTE: The sequence
 CC data for this patent did not form part of the printed specification, but
 CC was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences

XX Sequence 12 BP; 4 A; 4 C; 0 G; 4 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 12;

Best Local Similarity 90.0%; Pred. No. 37;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 11 ACATGATGGA 20
 | |||||

Db 12 AGATGATGGA 3

RESULT 60
 AB135107
 ID AB135107 standard; DNA; 12 BP.

XX AB135107;

XX 22-FEB-2002 (first entry)

XX Oligonucleotide primer SEQ ID NO 335080 for detecting SNP TSC0038590.

XX SNP, single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.

XX Homo sapiens.

XX WO200177384-A2.

XX 18-OCT-2001.

XX 06-APR-2001; 2001WO-IB000713.

XX 07-APR-2000; 2000DE-01019173.

XX (EPIC-) EPIGENOMICS AG.

XX Olek A, Piepenbrock C, Berlin K;

XX WPI; 2001-657177/75.

XX Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single-nucleotide polymorphisms and cytosine
 PT methylation status.

XX Claim 1; SEQ ID NO 335080; 29pp + Sequence Listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation. ABC00010
 CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073
 CC represent the oligomers described in the invention. NOTE: The sequence
 CC data for this patent did not form part of the printed specification, but
 CC was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences

XX Sequence 12 BP; 6 A; 0 C; 3 G; 3 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 12;

Best Local Similarity 90.0%; Pred. No. 37;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 11 ACATGATGGA 20
 | |||||
 Db 2 AAATGATGGA 11

RESULT 61

AB172389
 ID AB172389 standard; DNA; 12 BP.

XX AB172389;

XX 22-FEB-2002 (first entry)

XX Oligonucleotide primer SEQ ID NO 372362 for detecting SNP TSC0059339.

CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX

Sequence 12 BP; 4 A; 1 C; 5 G; 2 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 12;
Best Local Similarity 90.0%; Pred. No. 37;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 11 ACATGATGCA 20
Db 2 ACGTGATGCA 11

RESULT 64

ABH67680
ID ABH67680 standard; DNA; 12 BP.

ABH67680;

22-FEB-2002 (first entry)

Oligonucleotide primer SEQ ID NO 267657 for detecting SNP TSC000420.

SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
central nervous system; gastrointestinal; respiratory; immune; metabolic.
Homo sapiens.

WO200177384-A2.

18-OCT-2001.

06-APR-2001; 2001WO-IB000713.

07-APR-2000; 2000DE-01019173.

(EPIG-) EPIGENOMICS AG.

Olek A, Piepenbrock C, Berlin K;

WPI; 2001-657177/75.

Set of oligonucleotides, useful for diagnosis and cell typing, is
designed to detect single-nucleotide polymorphisms and cytosine
methylation status.

Claim 1; SEQ ID NO 267657; 29pp + Sequence Listing; German.

This invention describes novel oligonucleotide primers or peptide nucleic
acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
and cytosine methylation status in chemically pretreated genomic DNA. The
oligonucleotides are used for diagnosis and/or prognosis of cancer and a
range of diseases including immune system, gastrointestinal, respiratory,
central nervous system, cardiovascular and metabolic disorders. The
oligomers are also used for detecting cell type differentiation. ABC00010
-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
represent the oligomers described in the invention. NOTE: The sequence
data for this patent did not form part of the printed specification, but
was obtained in electronic format from WIPO at
ftp.wipo.int/pub/published_pct_sequences

Sequence 12 BP; 5 A; 0 C; 3 G; 4 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 12;
Best Local Similarity 90.0%; Pred. No. 37;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 11 ACATGATGCA 20
Db 1 AATGATGCA 10

RESULT 65

ABI08303/C
ID ABI08303 standard; DNA; 12 BP.

ABI08303;

22-FEB-2002 (first entry)

Oligonucleotide primer SEQ ID NO 308276 for detecting SNP TSC0022938.

SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
central nervous system; gastrointestinal; respiratory; immune; metabolic.
Homo sapiens.

WO200177384-A2.
18-OCT-2001.

06-APR-2001; 2001WO-IB000713.

07-APR-2000; 2000DE-01019173.

(EPIG-) EPIGENOMICS AG.

Olek A, Piepenbrock C, Berlin K;

WPI; 2001-657177/75.

Set of oligonucleotides, useful for diagnosis and cell typing, is
designed to detect single-nucleotide polymorphisms and cytosine
methylation status.

Claim 1; SEQ ID NO 308276; 29pp + Sequence Listing; German.

This invention describes novel oligonucleotide primers or peptide nucleic
acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
and cytosine methylation status in chemically pretreated genomic DNA. The
oligonucleotides are used for diagnosis and/or prognosis of cancer and a
range of diseases including immune system, gastrointestinal, respiratory,
central nervous system, cardiovascular and metabolic disorders. The
oligomers are also used for detecting cell type differentiation. ABC00010
-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
represent the oligomers described in the invention. NOTE: The sequence
data for this patent did not form part of the printed specification, but
was obtained in electronic format from WIPO at
ftp.wipo.int/pub/published_pct_sequences

Sequence 12 BP; 2 A; 5 C; 1 G; 4 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 12;
Best Local Similarity 90.0%; Pred. No. 37;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 11 ACATGATGCA 20
Db 12 ACGTGATGCA 3

RESULT 66

ABI29750/C

ID AB129750 standard; DNA; 12 BP.
XX
AC AB129750;
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide primer SEQ ID NO 329723 for detecting SNP TSC003511.
XX
KM SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN MO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001MO-IB000713.
XX
PR 07-APR-2000; 2000DB-01019173.
XX
PA (EPIC-) EPIDEMIOLOGICS AC.
PI Olek A, Piepenbrock C, Berlin K;
PI MPI; 2001-657177/75.
XX
DR Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
PS Claim 1; SEQ ID NO 329723; 29bp + Sequence listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABP00010-ABP99989, ABH00010-ABH99989 and AB100010-AB12073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 12 BP; 2 A; 3 C; 0 G; 7 T; 0 U; 0 Other;
XX
Query Match 42.0%; Score 8.4; DB 1; Length 12;
Best Local Similarity 90.0%; Pred. No. 37;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
XX
QY 11 ACATGATGA 20
DB 11 AAATGATGA 2
XX
RESULT 67
AAH49257
ID AAH49257 standard; DNA; 12 BP.
XX
AC AAH49257;
XX
DT 26-NOV-2001 (first entry)
XX
DE PNA-forming oligonucleotide #20.
XX
KM Polyamide-oligonucleotide derivative; anticancer; antiproliferative;
KM antiviral; hepatotropic; vasotropic; antisense inhibition; ribozyme;
KM integrin; cell-cell adhesion; cancer; restenosis; stability; PNA;
KM peptide nucleic acid; ss.
XX

OS Synthetic.
XX
PN EP1113021-A2.
XX
PD 04-JUL-2001.
XX
PF 08-MAR-1995; 2001EP-00104012.
XX
PR 14-MAR-1994; 94DB-04408528.
PR 08-MAR-1995; 95EP-00103332.
XX
PA (AVER) AVENTIS PHARMA DEUT GMBH.
XX
PI Uhlmann E, Breipohl G;
PI MPI; 2001-591267/67.
XX
DR New DNA-peptide nucleic acid chimeras, useful e.g. as antisense agents
XX for treating e.g. cancer, also as diagnostic probes and primers.
XX
PS Example 43; Page 46; 54pp; German.
XX
CC This invention describes novel polyamide-oligonucleotide derivatives (I)
CC and their physiologically acceptable salts of formula $F(DNA-Li)G(PNA-Li)_xR(DNA-Li)_y$ s (PNA) t' xF' where g, r, s, t = 0 or 1, with the sum of
CC two or more adjacent letters at least 2; x = 1-20; DNA = nucleic acid
CC (such as DNA or RNA or their known derivatives); Li = covalent linkage
CC between DNA and PNA, i.e. a bond or a residue containing at least one
CC atom of carbon, nitrogen, oxygen or sulfur; PNA = polyamide structure
CC containing at least one nucleobase different from thymine; and F, F' =
CC end groups and/or are connected through a covalent bond. The products of
CC the invention have anticancer, antiproliferative, antiviral, hepatotropic
CC and vasotropic activity and can be used for the inhibition of gene
CC expression by antisense, ribozyme, sense, or triple-helix methods, or by
CC binding to proteins (aptamers). (I) are used for treating diseases caused
CC by viruses (human immune deficiency, herpes simplex, influenza, vesicular
CC stomatitis, hepatitis B or papilloma), or mediated by integrins or cell-
CC cell adhesion reactions, for treating cancer, or for inhibiting
CC restenosis, particularly as antisense reagents. They are also useful in
CC heterogeneous or homogeneous assays, as primers or probes, particularly
CC where the target is amplified before being detected by hybridization, for
CC diagnosis of genetic, malignant or pathogen-related diseases. (I) retain
CC the increased affinity for complementary strands and better stability in
CC serum, associated with conventional peptide nucleic acids (PNA), but lack
CC the disadvantages, i.e. have improved cellular uptake, do not aggregate
CC in aqueous solution, and have reduced affinity for purification
CC materials, reduced cytotoxicity, better sequence specificity. They are
CC more active than either DNA or PNA oligomers. When used as probes, (I)
CC show different responses to base-pair mismatches in the DNA and PNA
CC segments, allowing better discrimination between pathogenic and non-
CC pathogenic conditions such as the transition from proto-oncogene to
CC oncogene, also, when used as primers, with the PNA segment at the 5'-end,
CC they produce amplicons resistant to 5'-exonuclease, allowing this enzyme
CC to be used to eliminate RNA or DNA primers. The DNA component allows
CC additional reactions not possible with PNA alone, e.g. 3'-tailing and (I)
CC may be incorporated into a gene. AAH49208-AAH49264 represent
CC oligonucleotides used to illustrate the method of the invention
XX
SQ Sequence 12 BP; 3 A; 3 C; 3 G; 3 T; 0 U; 0 Other;
XX
Query Match 42.0%; Score 8.4; DB 1; Length 12;
Best Local Similarity 90.0%; Pred. No. 37;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
XX
QY 1 CCTCATGATC 10
DB 2 CATCATGATC 11
XX
RESULT 68
AAH49256
ID AAH49256 standard; DNA; 12 BP.
XX

AC AAH49256;
 XX
 XX 26-NOV-2001 (first entry)
 XX
 XX PNA-forming oligonucleotide #19.
 DE
 XX Polyamide-oligonucleotide derivative; anticancer; antiproliferative;
 XX antiviral; hepatocarcinoma; vasotropic; antisense inhibition; ribozyme;
 KM integrin; cell-cell adhesion; cancer; restenosis; stability; PNA;
 KM peptide nucleic acid; ss.
 XX
 XX Synthetic.
 OS
 XX EP1113021-A2.
 PN
 XX 04-JUL-2001.
 PD
 XX 08-MAR-1995; 2001EP-00104012.
 XX
 XX 14-MAR-1994; 94DE-04408528.
 XX
 PR 08-MAR-1995; 95EP-00103332.
 XX
 XX (AVENTIS PHARMA DEUT GMBH.
 PA
 XX Uhlmann E, Breipohl G;
 XX
 XX WPI; 2001-591267/67.
 DR
 XX
 XX New DNA-peptide nucleic acid chimeras, useful e.g. as antisense agents
 PT for treating e.g. cancer, also as diagnostic probes and primers.
 PI
 XX
 PS Example 43; Page 46; 54pp; German.

XX This invention describes novel polyamide-oligonucleotide derivatives (I)
 CC and their physiologically acceptable salts of formula $F'(DNA-Li)_q(PNA-Li)_r(PNA-Li)_s(PNA-Li)_t$ where $q, r, s, t = 0$ or 1, with the sum of
 CC two or more adjacent letters at least 2; $x = 1-20$; DNA = nucleic acid
 CC (such as DNA or RNA or their known derivatives); Li = covalent linkage
 CC between DNA and PNA, i.e. a bond or a residue containing at least one
 CC atom of carbon, nitrogen, oxygen or sulfur; PNA = polyamide structure
 CC containing at least one nucleobase different from thymine; and $F, F' =$
 CC end groups and/or are connected through a covalent bond. The products of
 CC the invention have anticancer, antiproliferative, antiviral, hepatocarcinoma
 CC and vasotropic activity and can be used for the inhibition of gene
 CC expression by antisense, ribozyme, sense, or triple-helix methods, or by
 CC binding to proteins (aptamers). (I) are used for treating diseases caused
 CC by viruses (human immune deficiency, herpes simplex, influenza, vesicular
 CC stomatitis, hepatitis B or papilloma), or mediated by integrins or cell-
 CC cell adhesion reactions, for treating cancer, or for inhibiting
 CC restenosis, particularly as antisense reagents. They are also useful in
 CC heterogeneous or homogeneous assays, as primers or probes, particularly
 CC where the target is amplified before being detected by hybridization, for
 CC diagnosis of genetic, malignant or pathogen-related diseases. (I) retain
 CC the increased affinity for complementary strands and better stability in
 CC serum, associated with conventional peptide nucleic acids (PNA), but lack
 CC the disadvantages, i.e. have improved cellular uptake, do not aggregate
 CC in aqueous solution, and have reduced affinity for purification
 CC materials, reduced cytotoxicity, better sequence specificity. They are
 CC more active than either DNA or PNA oligomers. When used as probes, (I)
 CC show different responses to base-pair mismatches in the DNA and PNA
 CC segments, allowing better discrimination between pathogenic and non-
 CC pathogenic conditions such as the transition from proto-oncogene to
 CC oncogene, also, when used as primers, with the PNA segment at the 5'-end,
 CC they produce amplicons resistant to 5'-exonuclease, allowing this enzyme
 CC to be used to eliminate RNA or DNA primers. The DNA component allows
 CC additional reactions not possible with PNA alone, e.g. 3'-capping and (I)
 CC may be incorporated into a gene. AAH49208-AAH49264 represent
 CC oligonucleotides used to illustrate the method of the invention
 XX
 XX Sequence 12 BP, 3 A; 3 C; 3 G; 3 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 12;
 Best Local Similarity 90.0%; Pred. No. 37;

Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 1 CCTCATGTC 10
 DB 2 CATCATGTC 11

RESULT 69
 AAH49260
 ID AAH49260 standard, DNA; 12 BP.
 XX
 XX AAH49260;
 XX
 XX 26-NOV-2001 (first entry)
 XX
 XX PNA-forming oligonucleotide #23.
 DE
 XX Polyamide-oligonucleotide derivative; anticancer; antiproliferative;
 KM antiviral; hepatocarcinoma; vasotropic; antisense inhibition; ribozyme;
 KM integrin; cell-cell adhesion; cancer; restenosis; stability; PNA;
 KM peptide nucleic acid; ss.
 XX
 XX Synthetic.
 OS
 XX EP1113021-A2.
 PN
 XX 04-JUL-2001.
 PD
 XX 08-MAR-1995; 2001EP-00104012.
 XX
 XX 14-MAR-1994; 94DE-04408528.
 XX
 PR 08-MAR-1995; 95EP-00103332.
 XX
 XX (AVENTIS PHARMA DEUT GMBH.
 PA
 XX Uhlmann E, Breipohl G;
 XX
 XX WPI; 2001-591267/67.
 DR
 XX
 XX New DNA-peptide nucleic acid chimeras, useful e.g. as antisense agents
 PT for treating e.g. cancer, also as diagnostic probes and primers.
 PI
 XX
 PS Example 43; Page 46; 54pp; German.

XX This invention describes novel polyamide-oligonucleotide derivatives (I)
 CC and their physiologically acceptable salts of formula $F'(DNA-Li)_q(PNA-Li)_r(PNA-Li)_s(PNA-Li)_t$ where $q, r, s, t = 0$ or 1, with the sum of
 CC two or more adjacent letters at least 2; $x = 1-20$; DNA = nucleic acid
 CC (such as DNA or RNA or their known derivatives); Li = covalent linkage
 CC between DNA and PNA, i.e. a bond or a residue containing at least one
 CC atom of carbon, nitrogen, oxygen or sulfur; PNA = polyamide structure
 CC containing at least one nucleobase different from thymine; and $F, F' =$
 CC end groups and/or are connected through a covalent bond. The products of
 CC the invention have anticancer, antiproliferative, antiviral, hepatocarcinoma
 CC and vasotropic activity and can be used for the inhibition of gene
 CC expression by antisense, ribozyme, sense, or triple-helix methods, or by
 CC binding to proteins (aptamers). (I) are used for treating diseases caused
 CC by viruses (human immune deficiency, herpes simplex, influenza, vesicular
 CC stomatitis, hepatitis B or papilloma), or mediated by integrins or cell-
 CC cell adhesion reactions, for treating cancer, or for inhibiting
 CC restenosis, particularly as antisense reagents. They are also useful in
 CC heterogeneous or homogeneous assays, as primers or probes, particularly
 CC where the target is amplified before being detected by hybridization, for
 CC diagnosis of genetic, malignant or pathogen-related diseases. (I) retain
 CC the increased affinity for complementary strands and better stability in
 CC serum, associated with conventional peptide nucleic acids (PNA), but lack
 CC the disadvantages, i.e. have improved cellular uptake, do not aggregate
 CC in aqueous solution, and have reduced affinity for purification
 CC materials, reduced cytotoxicity, better sequence specificity. They are
 CC more active than either DNA or PNA oligomers. When used as probes, (I)
 CC show different responses to base-pair mismatches in the DNA and PNA
 CC segments, allowing better discrimination between pathogenic and non-
 CC pathogenic conditions such as the transition from proto-oncogene to

CC oncogene, also, when used as primers, with the PNA segment at the 5'-end.
CC they produce amplicons resistant to 5'-exonuclease, allowing this enzyme
CC to be used to eliminate RNA or DNA primers. The DNA component allows
CC additional reactions not possible with PNA alone, e.g. 3'-falling and (1)
CC may be incorporated into a gene. AAH49208-AAH49264 represent
CC oligonucleotides used to illustrate the method of the invention
XX
SQ Sequence 12 BP; 3 A; 3 C; 3 G; 3 T; 0 U; 0 Other;
Query Match 42.0%; Score 8.4; DB 1; Length 12;
Best Local Similarity 90.0%; Pred. No. 37;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 CCTCATGCTC 10
2 CATCATGCTC 11
DB 2 CCTCATGCTC 11
RESULT 70
AAH49261
ID AAH49261 standard; DNA; 12 BP.
AC AAH49261;
XX
XX 26-NOV-2001 (first entry)
DT
XX
XX PNA-forming oligonucleotide #24.
DE
XX Polyamide-oligonucleotide derivative; anticancer; antiproliferative;
KM antiviral; hepatotropic; vasotropic; antisense inhibition; ribozyme;
KM integrin; cell-cell adhesion; cancer; restenosis; stability; PNA;
KM peptide nucleic acid; ss.
XX
XX Synthetic.
OS
XX EP113021-A2.
PN
XX 04-JUL-2001.
PD
XX 08-MAR-1995; 2001EP-00104012.
PF
XX 14-MAR-1994; 94DE-04408528.
PR 08-MAR-1995; 95EP-00103332.
XX
XX (AVERT) AVENTIS PHARMA DEUT GMBH.
PA
XX Uhlmann E, Breipohl G;
PI
XX WPI; 2001-591267/67.
DR
XX New DNA-peptide nucleic acid chimeras, useful e.g. as antisense agents
PT for treating e.g. cancer, also as diagnostic probes and primers.
PS
XX Example 43; Page 46; 54pp; German.
XX
CC This invention describes novel polyamide-oligonucleotide derivatives (1)
CC and their physiologically acceptable salts of formula F((DNA)-Li)_q(PNA-
CC Li)_x(DNA-Li)_s(PNA)_t where q, r, s, t = 0 or 1, with the sum of
CC two or more adjacent letters at least 2; x = 1-20; DNA = nucleic acid
CC (such as DNA or RNA or their known derivatives); Li = covalent linkage
CC between DNA and PNA, i.e. a bond or a residue containing at least one
CC atom of carbon, nitrogen, oxygen or sulfur; PNA = polyamide structure
CC containing at least one nucleobase different from thymine, and F, F' =
CC end groups and/or are connected through a covalent bond. The products of
CC the invention have anticancer, antiproliferative, antiviral, hepatotropic
CC and vasotropic activity and can be used for the inhibition of gene
CC expression by antisense, ribozyme, sense, or triple-helix methods, or by
CC binding to proteins (aptamers); (1) are used for treating diseases caused
CC by viruses (human immune deficiency, herpes simplex, influenza, vesicular
CC stomatitis, hepatitis B or papilloma), or mediated by integrins or cell-
CC cell adhesion reactions, for treating cancer, or for inhibiting
CC restenosis, particularly as antisense reagents. They are also useful in
CC heterogeneous or homogeneous assays, as primers or probes, particularly in

CC where the target is amplified before being detected by hybridization, for
CC diagnosis of genetic, malignant or pathogen-related diseases. (1) retain
CC the increased affinity for complementary strands and better stability in
CC serum, associated with conventional peptide nucleic acids (PNA), but lack
CC the disadvantages, i.e. have improved cellular uptake, do not aggregate
CC in aqueous solution, and have reduced affinity for purification
CC materials, reduced cytotoxicity, better sequence specificity. They are
CC more active than either DNA or PNA oligomers. When used as probes, (1)
CC show different responses to base-pair mismatches in the DNA and PNA
CC segments, allowing better discrimination between pathogenic and non-
CC pathogenic conditions such as the transition from proto-oncogene to
CC oncogene, also, when used as primers, with the PNA segment at the 5'-end,
CC they produce amplicons resistant to 5'-exonuclease, allowing this enzyme
CC to be used to eliminate RNA or DNA primers. The DNA component allows
CC additional reactions not possible with PNA alone, e.g. 3'-falling and (1)
CC may be incorporated into a gene. AAH49208-AAH49264 represent
CC oligonucleotides used to illustrate the method of the invention
XX
SQ Sequence 12 BP; 3 A; 3 C; 3 G; 3 T; 0 U; 0 Other;
Query Match 42.0%; Score 8.4; DB 1; Length 12;
Best Local Similarity 90.0%; Pred. No. 37;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 CCTCATGCTC 10
2 CATCATGCTC 11
DB 2 CCTCATGCTC 11
RESULT 71
AAH49259
ID AAH49259 standard; DNA; 12 BP.
AC AAH49259;
XX
XX 26-NOV-2001 (first entry)
DT
XX
XX PNA-forming oligonucleotide #22.
DE
XX Polyamide-oligonucleotide derivative; anticancer; antiproliferative;
KM antiviral; hepatotropic; vasotropic; antisense inhibition; ribozyme;
KM integrin; cell-cell adhesion; cancer; restenosis; stability; PNA;
KM peptide nucleic acid; ss.
XX
XX Synthetic.
OS
XX EP113021-A2.
PN
XX 04-JUL-2001.
PD
XX 08-MAR-1995; 2001EP-00104012.
PF
XX 14-MAR-1994; 94DE-04408528.
PR 08-MAR-1995; 95EP-00103332.
XX
XX (AVERT) AVENTIS PHARMA DEUT GMBH.
PA
XX Uhlmann E, Breipohl G;
PI
XX WPI; 2001-591267/67.
DR
XX New DNA-peptide nucleic acid chimeras, useful e.g. as antisense agents
PT for treating e.g. cancer, also as diagnostic probes and primers.
PS
XX Example 43; Page 46; 54pp; German.
XX
CC This invention describes novel polyamide-oligonucleotide derivatives (1)
CC and their physiologically acceptable salts of formula F((DNA)-Li)_q(PNA-
CC Li)_x(DNA-Li)_s(PNA)_t where q, r, s, t = 0 or 1, with the sum of
CC two or more adjacent letters at least 2; x = 1-20; DNA = nucleic acid
CC (such as DNA or RNA or their known derivatives); Li = covalent linkage
CC between DNA and PNA, i.e. a bond or a residue containing at least one
CC atom of carbon, nitrogen, oxygen or sulfur; PNA = polyamide structure

CC containing at least one nucleobase different from thymine; and F, F' =
 CC end groups and/or are connected through a covalent bond. The products of
 CC the invention have anticancer, antiproliferative, antiviral, hepatotropic
 CC and vasotropic activity and can be used for the inhibition of gene
 CC expression by antisense, ribozyme, sense, or triple-helix methods, or by
 CC binding to proteins (aprimers). (I) are used for treating diseases caused
 CC by viruses (human immune deficiency, herpes simplex, influenza, vesicular
 CC stomatitis, hepatitis B or papilloma), or mediated by integrins or cell-
 CC cell adhesion reactions, for treating cancer, or for inhibiting
 CC restenosis, particularly as antisense reagents. They are also useful in
 CC heterogeneous or homogeneous assays, as primers or probes, particularly
 CC where the target is amplified before being detected by hybridization, for
 CC diagnosis of genetic, malignant or pathogen-related diseases. (I) retain
 CC the increased affinity for complementary strands and better stability in
 CC serum, associated with conventional peptide nucleic acids (PNA), but lack
 CC the disadvantages, i.e. have improved cellular uptake, do not aggregate
 CC in aqueous solution, and have reduced affinity for purification
 CC materials, reduced cytotoxicity, better sequence specificity. They are
 CC more active than either DNA or PNA oligomers. When used as probes, (I)
 CC show different responses to base-pair mismatches in the DNA and PNA
 CC segments, allowing better discrimination between pathogenic and non-
 CC pathogenic conditions such as the transition from proto-oncogene to
 CC oncogene, also, when used as primers, with the PNA segment at the 5'-end,
 CC they produce amplicons resistant to 5'-exonuclease, allowing this enzyme
 CC to be used to eliminate RNA or DNA primers. The DNA component allows
 CC additional reactions not possible with PNA alone, e.g. 3'-tailing and (I)
 CC may be incorporated into a gene. AAH49208-AAH49264 represent
 CC oligonucleotides used to illustrate the method of the invention

CC Sequence 12 BP; 3 A; 3 C; 3 G; 3 T; 0 U; 0 Other;

CC SQ

CC Query Match 42.0%; Score 8.4; DB 1; Length 12;
 CC Best Local Similarity 90.0%; Pred. No. 37;
 CC Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

CC QY 1 CCTCATGTC 10
 CC | |||||
 CC 2 CATCATGTC 11

CC Db

CC RESULT 72
 CC AAH49258
 CC ID AAH49258 standard; DNA; 12 BP.
 CC XX
 CC AC AAH49258;
 CC XX
 CC DT 26-NOV-2001 (first entry)
 CC XX
 CC DE PNA-forming oligonucleotide #21.
 CC XX
 CC XX Polyamide-oligonucleotide derivative; anticancer; antiproliferative;
 CC KM antiviral; hepatotropic; vasotropic; antisense inhibition; ribozyme;
 CC KM integrin; cell-cell adhesion; cancer; restenosis; stability; PNA;
 CC XX peptide nucleic acid; ss.
 CC XX
 CC OS Synthetic.
 CC XX
 CC PN EP113021-A2.
 CC XX
 CC PD 04-JUL-2001.
 CC XX
 CC PF 08-MAR-1995; 2001EP-00104012.
 CC XX
 CC PR 14-MAR-1994; 94DE-04408528.
 CC XX
 CC PR 08-MAR-1995; 95EP-00103332.
 CC XX
 CC PA (AVENTIS PHARMA DEUT GMBH.
 CC XX
 CC PI Uhlmann E, Breipohl G;
 CC XX
 CC DR WFI; 2001-591267/67.
 CC XX
 CC PT New DNA-peptide nucleic acid chimeras, useful e.g. as antisense agents

PT for treating e.g. cancer, also as diagnostic probes and primers.

XX Example 43; Page 46; 54pp; German.

XX

XX This invention describes novel polyamide-oligonucleotide derivatives (I)
 CC and their physiologically acceptable salts of formula F((DNA)-L), G(PNA-
 CC L), F((DNA-L)), G(PNA-L)) where q, r, s, t = 0 or 1, with the sum of
 CC L1, r(DNA-L1), s(PNA-L), t = 1-20; DNA = nucleic acid
 CC (two or more adjacent letters at least 2; x = 1-20; DNA = nucleic acid
 CC such as DNA or RNA or their known derivatives); L = covalent linkage
 CC between DNA and PNA, i.e. a bond or a residue containing at least one
 CC atom of carbon, nitrogen, oxygen or sulfur; PNA = polyamide structure
 CC containing at least one nucleobase different from thymine; and F, F' =
 CC end groups and/or are connected through a covalent bond. The products of
 CC the invention have anticancer, antiproliferative, antiviral, hepatotropic
 CC and vasotropic activity and can be used for the inhibition of gene
 CC expression by antisense, ribozyme, sense, or triple-helix methods, or by
 CC binding to proteins (aprimers). (I) are used for treating diseases caused
 CC by viruses (human immune deficiency, herpes simplex, influenza, vesicular
 CC stomatitis, hepatitis B or papilloma), or mediated by integrins or cell-
 CC cell adhesion reactions, for treating cancer, or for inhibiting
 CC restenosis, particularly as antisense reagents. They are also useful in
 CC heterogeneous or homogeneous assays, as primers or probes, particularly
 CC where the target is amplified before being detected by hybridization, for
 CC diagnosis of genetic, malignant or pathogen-related diseases. (I) retain
 CC the increased affinity for complementary strands and better stability in
 CC serum, associated with conventional peptide nucleic acids (PNA), but lack
 CC the disadvantages, i.e. have improved cellular uptake, do not aggregate
 CC in aqueous solution, and have reduced affinity for purification
 CC materials, reduced cytotoxicity, better sequence specificity. They are
 CC more active than either DNA or PNA oligomers. When used as probes, (I)
 CC show different responses to base-pair mismatches in the DNA and PNA
 CC segments, allowing better discrimination between pathogenic and non-
 CC pathogenic conditions such as the transition from proto-oncogene to
 CC oncogene, also, when used as primers, with the PNA segment at the 5'-end,
 CC they produce amplicons resistant to 5'-exonuclease, allowing this enzyme
 CC to be used to eliminate RNA or DNA primers. The DNA component allows
 CC additional reactions not possible with PNA alone, e.g. 3'-tailing and (I)
 CC may be incorporated into a gene. AAH49208-AAH49264 represent
 CC oligonucleotides used to illustrate the method of the invention

CC SQ

CC Sequence 12 BP; 3 A; 3 C; 3 G; 3 T; 0 U; 0 Other;

CC Query Match 42.0%; Score 8.4; DB 1; Length 12;
 CC Best Local Similarity 90.0%; Pred. No. 37;
 CC Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

CC QY 1 CCTCATGTC 10
 CC | |||||
 CC 2 CATCATGTC 11

CC Db

CC RESULT 73
 CC ABA82718/c
 CC ID ABA82718 standard; DNA; 12 BP.
 CC XX
 CC AC ABA82718;
 CC XX
 CC DT 07-FEB-2002 (first entry)
 CC XX
 CC DE Human protective DNA sequence CNI-00735 fragment #4.
 CC XX
 CC XX Human; protective sequence; cell death; cancer; autoimmune disease;
 CC KM neurological disorder; stroke; cytostatic; neuroprotective; gene therapy;
 CC KM db.
 CC XX
 CC OS Homo sapiens.
 CC XX
 CC PN WO200176457-A2.
 CC XX
 CC PD 18-OCT-2001.
 CC XX
 CC PF 09-APR-2001; 2001WO-US011663.
 CC XX

PR 11-APR-2000; 2000US-00547735.
 XX (COGE-) COGENT NEUROSCIENCE INC.
 XX
 PA Thomas MB, Portbury SD, Puranam K, Katz LC, Lo DC, Barney S;
 PI
 XX MPI; 2002-025874/03.
 XX
 PT New protective sequences and their products, useful for diagnosing and
 PT treating diseases involving cell death, including neurological disorders
 PT e.g. stroke and for identifying modulators of expression of the
 PT protective sequences.
 XX
 PS Claim 2; Fig 5; 283pp; English.
 XX
 CC The present invention relates to protective sequence proteins (ABBA4624-
 CC ABA44830) and their coding sequences (ABA82701-ABA82937). The sequences,
 CC when introduced into a cell either predisposed to undergo cell death or
 CC in the process of undergoing cell death, prevent, delay or rescue the
 CC cell from death, hence, these sequences are named "protective sequences".
 CC The sequences are useful for treating and/or ameliorating cancer,
 CC autoimmune diseases and neurological disorders e.g. stroke. Further
 CC examples of diseases which may be treated by the present invention are
 CC given in the specification
 CC
 SO Sequence 12 BP; 4 A; 2 C; 3 G; 3 T; 0 U; 0 Other;
 XX
 Query Match 42.0%; Score 8.4; DB 1; Length 12;
 Best Local Similarity 90.0%; Pred. No. 37;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 2 CTCATGCTCA 11
 DB 11 CACATGCTCA 2
 XX
 RESULT 74
 ABAK72560
 ID ABAK72560 standard; DNA; 12 BP.
 XX
 AC ABAK72560;
 XX
 DT 13-AUG-2002 (first entry)
 XX
 DE Human OPA1 gene, exon/intron junction #27.
 XX
 KW Human; ophthalmological; OPA1; autosomal dominant optic atrophy; ADOA;
 KW gene; de.
 XX
 OS Homo sapiens.
 XX
 PN WO200227022-A2.
 XX
 PD 04-APR-2002.
 XX
 PF 26-SEP-2001; 2001WO-GB004284.
 XX
 PR 26-SEP-2000; 2000GB-00023555.
 XX
 PA (UNLCO) UNIV COLLEGE LONDON.
 PA (UYEX-) UNIV EYE HOSPITAL.
 XX
 PI Bhattacharya S, Wissinger B, Alexander C, Votruba M;
 XX MPI; 2002-416484/44.
 XX
 DR Novel human normal or mutant OPA1 (the predominant locus for autosomal
 PT dominant optic atrophy (ADOA)) polypeptides and the OPA1 gene, useful in
 PT the diagnosis and treatment of autosomal dominant optic atrophy ADOA.
 XX
 PS Disclosure; Fig 12; 75pp; English.
 XX
 CC The invention relates to an isolated human normal or mutant OPA1 (the

CC predominant locus for autosomal dominant optic atrophy (ADOA))
 CC polypeptide (I), characterised by a molecular weight of about 112 kDa, DNA
 CC and substantially free of other human proteins. Also described is the DNA
 CC (II) encoding (I). (I) and (II) are useful as a medicament, for the
 CC treatment of a medical condition resulting from a defect in the OPA1
 CC gene, which results in autosomal dominant optic atrophy. The nucleic acid
 CC and antibodies to (I) are useful in a variety of hybridisation and
 CC immunological assays to screen for, and to detect the presence of, either
 CC a normal or a defective OPA1 gene or gene product. ABAK72533-ABK72593
 CC represent the human OPA1 gene and intron/exon splice junctions
 XX
 SO Sequence 12 BP; 3 A; 1 C; 3 G; 5 T; 0 U; 0 Other;
 XX
 Query Match 42.0%; Score 8.4; DB 1; Length 12;
 Best Local Similarity 90.0%; Pred. No. 37;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 9 TCACATGAT 18
 DB 3 TCACATGAT 12
 XX
 RESULT 75
 ABA01332/C
 ID ABA01332 standard; RNA; 12 BP.
 XX
 AC ABA01332;
 XX
 DT 29-AUG-2003 (revised)
 DT 03-JUL-2002 (first entry)
 XX
 DE HIV-1 rev oligonucleotide #5.
 XX
 KW Selenoprotein; HIV; Ebola virus; cancer; immune system disorder; ss.
 XX
 OS Human immunodeficiency virus 1.
 XX
 PN US6303295-B1.
 XX
 PD 16-OCT-2001.
 XX
 PF 12-JUL-1996; 96US-00679493.
 XX
 PR 14-JUL-1995; 95US-0001203P.
 PR 01-SEP-1995; 95US-0003112P.
 XX
 PA (UYGE-) UNIV GEORGIA RES FOUND INC.
 XX
 PI Taylor EW, Nadiimpallil RG, Ramanathan CS;
 XX MPI; 2002-024734/03.
 XX
 DR New selenoprotein for use in detecting certain viruses, e.g. human
 PT immunodeficiency virus (HIV) or Ebola, cancer and immune system
 PT disorders.
 XX
 PS Disclosure; Col 26; 140pp; English.
 XX
 CC The present invention relates to selenoproteins encoded in the genome of
 CC a virus, where the coding sequence of the selenoprotein is genetically
 CC engineered for expression in a nucleic acid construct. The invention also
 CC discloses a method for identifying selenoprotein coding sequences, for
 CC detecting certain viruses (e.g. HIV or Ebola), cancer and immune system
 CC disorders. The present sequence was used to illustrate the invention.
 CC (Updated on 29-AUG-2003 to standardise OS field)
 XX
 SO Sequence 12 BP; 4 A; 3 C; 3 G; 0 T; 2 U; 0 Other;
 XX
 Query Match 42.0%; Score 8.4; DB 1; Length 12;
 Best Local Similarity 90.0%; Pred. No. 37;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 2 CTCATGCTCA 11

Db 11 CTCAGGTC 2

RESULT 76
ID AAK98610 standard; DNA; 12 BP.
XX AAK98610;
AC AAK98610;
XX 16-APR-2002 (first entry)
XX Modified peptide nucleic acid #1.
XX Peptide nucleic acid; PNA; polyamide backbone; phosphoryl radical;
XX cytosatic; virucide; dermatological; antiaesthetic; cancer; antisense;
XX viral infection; vitiligo; pigmentation disorder; asthma; ss.
XX Synthetic.
XX OS
XX Key Location/Qualifiers
XX modified_base 1 /*tag= a
XX /mod_base= OTHER
XX /note= "modified by phosphate and N-(2-
XX modified_base 12 hydroxyethyl)glycine"
XX /*tag= b
XX /mod_base= OTHER
XX /note= "modified by hex"
XX
XX WO200179249-A2.
XX 25-OCT-2001.
XX
XX 07-APR-2001; 2001WO-EP004027.
XX PF
XX 18-APR-2000; 2000DE-01019136.
XX PR
XX (AVET) AVENTIS PHARMA DEUT GMBH.
XX PA
XX Uhlmann E, Breipohl G, Will DW;
XX PI
XX MPI; 2002-089643/12.
XX DR
XX New peptide nucleic acid derivatives, useful e.g. for treating tumors and
XX PT diagnosis, have N-terminal phosphoryl residue for improving e.g.
XX PT solubility in water.
XX PS
XX Example 3; Page 38; 96pp; German.
XX CC The present invention relates to peptide nucleic acid (PNA) derivatives.
XX CC These can be used in the treatment of cancer, viral infections, vitiligo
XX CC or other pigmentation disorders, and asthma. The present sequence is an
XX CC oligonucleotide fragment of a PNA described in the exemplification of the
XX CC invention
XX
XX Sequence 12 BP; 3 A; 3 C; 3 G; 3 T; 0 U; 0 Other;
SQ

Query Match 42.0%; Score 8.4; DB 1; Length 12;
Best Local Similarity 90.0%; Pred. No. 37;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 CCTCATGTC 10
DB 2 CATCATGTC 11

RESULT 77
ID ABA97503 standard; DNA; 12 BP.
XX ABA97503;
AC ABA97503;

XX 16-APR-2002 (first entry)
XX DT
XX Peptide nucleic acid SEQ ID NO: 50.
XX DE
XX Peptide nucleic acid; PNA; polyamide backbone; phosphoryl radical;
XX KM cytosatic; virucide; dermatological; antiaesthetic; cancer; antisense;
XX KM viral infection; vitiligo; pigmentation disorder; asthma; ss.
XX OS
XX Synthetic.
XX OS
XX WO200179249-A2.
XX PN
XX 25-OCT-2001.
XX PD
XX 07-APR-2001; 2001WO-EP004027.
XX PF
XX 18-APR-2000; 2000DE-01019136.
XX PR
XX (AVET) AVENTIS PHARMA DEUT GMBH.
XX PA
XX Uhlmann E, Breipohl G, Will DW;
XX PI
XX MPI; 2002-089643/12.
XX DR
XX New peptide nucleic acid derivatives, useful e.g. for treating tumors and
XX PT diagnosis, have N-terminal phosphoryl residue for improving e.g.
XX PT solubility in water.
XX PS
XX Disclosure; Page 91; 96pp; German.
XX
XX CC The present invention relates to peptide nucleic acid (PNA) derivatives.
XX CC These can be used in the treatment of cancer, viral infections, vitiligo
XX CC or other pigmentation disorders, and asthma. The present sequence is an
XX CC oligonucleotide fragment of a PNA described in the exemplification of the
XX CC invention
XX
XX Sequence 12 BP; 3 A; 3 C; 3 G; 3 T; 0 U; 0 Other;
SQ

Query Match 42.0%; Score 8.4; DB 1; Length 12;
Best Local Similarity 90.0%; Pred. No. 37;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 CCTCATGTC 10
DB 2 CATCATGTC 11

RESULT 78
ID ADM56294/C
XX ADM56294 standard; DNA; 12 BP.
XX ID
XX ADM56294;
XX AC
XX 03-JUN-2004 (first entry)
XX DT
XX
XX Mouse SLC26A6 anion transporter protein gene splice site #13.
XX DE
XX SLC26A6; SLC26A1; SLC26A2; anion transporter protein; cancer;
XX KM splice site; ds; mouse; murine.
XX KM
XX Mus musculus.
XX OS
XX WO2003072759-A2.
XX PN
XX 04-SEP-2003.
XX PD
XX 28-FEB-2003; 2003WO-US006469.
XX PF
XX 28-FEB-2002; 2002US-0360275P.
XX PR
XX (UYVA-) UNIV VANDERBILT.
XX PA (UYCA-) UNIV CASE WESTERN RESERVE.
XX

PA (BGHM) BRIGHAM & WOMENS HOSPITAL.
 XX
 PI Mount DB, Romero MF;
 XX
 DR WPI; 2003-712726/67.
 XX
 PT New SLC26A6, SLC26A1 or SLC26A2 polypeptide, useful for preparing a
 PT competition for treating e.g., cancer.
 XX
 PS Example 2; SEQ ID NO 26; 204bp; English.
 XX
 CC The invention comprises the amino acid and coding sequences of SLC26A6,
 CC SLC26A1 and SLC26A2 anion transporter proteins. The DNA and protein
 CC sequences of the invention are useful for treating cancer. The present
 CC DNA sequence represents a splice site from the gene encoding the mouse
 CC SLC26A6 anion transporter protein.
 XX
 SQ Sequence 12 BP; 3 A; 1 C; 3 G; 5 T; 0 U; 0 Other;
 XX
 Query Match 42.0%; Score 8.4; DB 1; Length 12;
 Best Local Similarity 90.0%; Pred. No. 37;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 9 TCACATGAT 18
 Db 10 TCACATGAT 1
 XX
 RESULT 79
 ADQ29965
 ID ADQ29965 standard; DNA; 12 BP.
 XX
 AC ADQ29965;
 XX
 DT 09-SEP-2004 (first entry)
 XX
 DE Rat VR1 exon 1d transcription factor binding fragment #41.
 XX
 KW ds; VR1 receptor; vanilloid receptor type 1; modulator;
 KW pain transmission; primary sensory neuron; transcription factor;
 KW detection; MZFI; NKAPPAB; NPAT; GATA1; sensitivity disorder; analgesia;
 KW hyperalgesia; hyperalgesia; neuralgia; myalgia; rat.
 XX
 OS Rattus sp.
 XX
 PN WO2004053120-A2.
 XX
 PD 24-JUN-2004.
 XX
 PF 01-DEC-2003; 2003WO-EP013522.
 XX
 PR 09-DEC-2002; 2002DE-01057421.
 XX
 PA (CHER) GRUENTHAL GMBH.
 XX
 PI Weihe E, Bteller A, Schaefer MKH;
 XX
 DR WPI; 2004-468668/44.
 XX
 PT New nucleic acid that modulates expression of the vanilloid receptor-1,
 PT useful for control of pain or sensitivity disorder, comprises sequences
 PT from control regions of the receptor gene.
 XX
 PS Disclosure; Page 46; 68pp; German.
 XX
 CC This invention describes a novel nucleic acid containing a specific
 CC segment having at least one region that modulates expression of the VR1
 CC (vanilloid receptor type 1) receptor, or a functional derivative, allele
 CC or fragment of this region, or a sequence that hybridizes to it under
 CC standard conditions. The VR1 modulator is derived from one or more of
 CC positions 221931-22344 of GenBank AL670399, 31673-36359 of AL663116, or
 CC 44731-43231 or 36616-33151 of AF168787 and is involved in transmission of
 CC pain, particularly in primary sensory neurons. The invention also

CC describes a vector that contains the VR1 modulator, host cells containing
 CC this vector (other than human germ or embryonal stem cells) and a method
 CC for modulating expression of the VR1 receptor by introducing the
 CC modulator or the vector into a cell that contains the VR1 gene. The
 CC products of the invention are used for detecting a transcription factor
 CC from its binding to a regulatory sequence (or a double-stranded
 CC oligonucleotide fragment of it), e.g. by Western blotting or enzyme-
 CC linked immunosorbent assay, particularly for diagnosis of diseases
 CC associated with overexpression or underexpression of the transcription
 CC factor. The region that modulates VR1 receptor expression includes a
 CC binding site for a transcription factor, e.g. MZFI, NKAPPAB, NPAT or
 CC GATA1. The nucleic acids of the invention, or vectors containing them,
 CC are used for prevention or treatment of pain, also for treating them,
 CC sensitivity disorders, e.g. analgesia, hyperalgesia or hyperalgesia, also
 CC neuralgia and myalgia, that are associated with activity of the VR1
 CC receptor. This sequence represents a fragment of rat VR1 exon 1d DNA
 CC which is capable of binding to a transcription factor.
 XX
 SQ Sequence 12 BP; 3 A; 2 C; 6 G; 1 T; 0 U; 0 Other;
 XX
 Query Match 42.0%; Score 8.4; DB 1; Length 12;
 Best Local Similarity 90.0%; Pred. No. 37;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 10 CACATGGATG 19
 Db 1 CACATGGATG 10
 XX
 RESULT 80
 AEF80873/C
 ID AEF80873 standard; DNA; 12 BP.
 XX
 AC AEF80873;
 XX
 DT 20-APR-2006 (first entry)
 XX
 DE MLTF/USF promoter target DNA fragment.
 XX
 KW Gene expression; gene regulation; platinum zinc complex; cancer; tumor;
 KW neoplasm; promoter; target; ds.
 XX
 OS Unidentified.
 XX
 PN JP2006045131-A.
 XX
 PD 16-FEB-2006.
 XX
 PF 05-AUG-2004; 2004JP-00229182.
 XX
 PR 05-AUG-2004; 2004JP-00229182.
 XX
 PA (UYTK) UNIV TOKYO RIKA GH.
 XX
 PI Aoki S, Okaya R, Takeda T, Kimura E;
 XX
 DR WPI; 2006-150505/16.
 XX
 PT Novel platinum-zinc complex useful as agent for controlling expression of
 PT promoter sequence or RNA of specific gene for treatment of cancer.
 XX
 PS Example 4; Page 10; 21pp; Japanese.
 XX
 CC The invention relates to a novel platinum-zinc complex (CI) used in the
 CC regulation of gene expression. The complex of the invention is prepared
 CC by reacting a 2,2'-bipyridyl derivative and a cyclen derivative protected
 CC by t-butyloxycarbonyl (Boc), adding the platinum compound to the obtained
 CC complex. (CI) is useful as an agent for controlling the expression of a
 CC specific gene. This involves contacting (CI) with the nucleic acid
 CC sequence of the gene, where the nucleic acid sequence is a promoter
 CC sequence which controls the expression of the gene, or an RNA encoding
 CC the gene. The platinum complex in (CI) has increased anti-tumor activity
 CC with respect to solid tumors such as testicular tumors, ovarian cancer,

CC head and neck cancer, esophageal cancer and small cell lung carcinoma.
CC (C1) controls the gene expression by the combination of zinc and platinum
CC complex in its structure. The current sequence represents a promoter
CC fragment that may act as a target for the complex of the invention.
XX

SQ Sequence 12 BP; 2 A; 5 C; 4 G; 1 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 12;

Best Local Similarity 90.0%; Pred. No. 37;

Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 7 GGTCACATGG 16
|||||

Db 12 GGTCACATGG 3

Search completed: June 13, 2006, 15:46:02
Job time : 0.001 secs

GenCore version 5.1.9
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OM nucleic - nucleic search, using sw model

Run on: June 13, 2006, 15:44:11 ; Search time 0.001 Seconds

(without alignments)
18.680 Million cell updates/sec

Title: US-10-719-370A-446

Perfect score: 20

Sequence: 1 cctcatgctcacatgatga 20

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 0.5

Searched: 36 segs, 467 residues

Total number of hits satisfying chosen parameters: 72

Minimum DB seq length: 12

Maximum DB seq length: 50

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 36 summaries

Database : us-10-719-370a-446.sl.rge4:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
C 1	17	85.0	20	1	ACCESSION:CS097426
C 2	14.8	74.0	19	1	AR199401
C 3	12.8	64.0	17	1	AX732438
C 4	12.2	61.0	17	1	CO622872
C 5	12.2	61.0	17	1	AR463935
C 6	10.8	54.0	15	1	AR180445
C 7	9.4	47.0	12	1	A71522
C 8	9.4	47.0	12	1	S74610
C 9	9.4	47.0	13	1	AR759769
C 10	9.4	47.0	13	1	AR759770
C 11	8.8	44.0	12	1	AR058623
C 12	8.8	44.0	12	1	I04322
C 13	8.4	42.0	12	1	AR024074
C 14	8.4	42.0	12	1	AR075457
C 15	8.4	42.0	12	1	AR108947
C 16	8.4	42.0	12	1	AR153908
C 17	8.4	42.0	12	1	AR172244
C 18	8.4	42.0	12	1	AR178525
C 19	8.4	42.0	12	1	BD001178
C 20	8.4	42.0	12	1	BD001607
C 21	8.4	42.0	12	1	BD064941
C 22	8.4	42.0	12	1	BD240723
C 23	8.4	42.0	12	1	BD261806
C 24	8.4	42.0	12	1	CO828540
C 25	8.4	42.0	12	1	I17542
C 26	8.4	42.0	12	1	AR224293
C 27	8.4	42.0	12	1	AR234464
C 28	8.4	42.0	12	1	AR275829
C 29	8.4	42.0	12	1	I58612
C 30	8.4	42.0	12	1	I72395
C 31	8.4	42.0	12	1	AR577337
C 32	8.4	42.0	12	1	AR659868
C 33	8.4	42.0	12	1	AR659877

ALIGNMENTS

C 34	8.4	42.0	12	1	AR69878	ACCESSION:AR69878
C 35	8.4	42.0	12	1	AX283286	ACCESSION:AX283286
C 36	8.4	42.0	12	1	AX711060	ACCESSION:AX711060

RESULT 1
CS097426/c CS097426 20 bp DNA linear PAT 03-JUN-2005

LOCUS CS097426 Sequence 69 from Patent WO2005045070.

DEFINITION CS097426

ACCESSION CS097426

VERSION CS097426.1 GI:66953875

KEYWORDS

SOURCE

ORGANISM Homo sapiens (human)

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;

Hominidae; Homo.

REFERENCE

AUTHORS Lacroix,B., Krause,A., Puisieux,A. and Bachelot,T.

TITLE Method for prognosticating a breast cancer

JOURNAL Patent: WO 2005045070-A 69 19-MAY-2005;

BIOMERIEUX (FR); Centre Leon Berard (FR)

FEATURES

source

1 CCTCATGCTCACATGGA 17

Db 17 CCTCATGCTCACATGGA 1

RESULT 2

AR199401

LOCUS AR199401 19 bp DNA linear PAT 20-APR-2002

DEFINITION Sequence 22 from patent US 6355434.

ACCESSION AR199401

VERSION AR199401.1 GI:20249475

KEYWORDS

SOURCE

ORGANISM Unknown.

REFERENCE

AUTHORS Drazen,J.M., In,K.-H., Asano,K., Beier,D. and Grobholz,J.

TITLE 5-lipoxygenase gene polymorphisms and their use in classifying

patients

JOURNAL Patent: US 6355434-A 22 12-MAR-2002;

FEATURES

source

1.19

/organism="unknown"

/mol_type="unassigned DNA"

Query Match

Best Local Similarity 74.0%; Score 14.8; DB 1; Length 19;

Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy

2 CTTCATGCTCACATGATG 19

Db

2 CTTCATGCTCACATGATG 19

RESULT 3

AX732438/c AX732438 17 bp DNA linear PAT 08-MAY-2003

LOCUS AX732438/c

DEFINITION Sequence 4072 from Patent WO03025175.

ACCESSION AX732438
VERSION AX732438.1 GI:30511781
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homnidae; Homo.
REFERENCE
1 Telerman, A., Amson, R. and Tulinder, M. Sequences involved in phenomena of tumour suppression, tumour reversion, apoptosis and/or virus resistance and their use as medicines
JOURNAL Patent: WO 03025175-A 4072 27-MAR-2003;
FEATURES
source
1.17
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"
Query Match 64.0%; Score 12.8; DB 1; Length 17;
Best Local Similarity 87.5%; Pred. No. 3.3;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
Qy 3 TCATGTCACATGAT 18
Db 17 TCAGGTCACATGAT 2
RESULT 4
LOCUS CQ622872 17 bp DNA linear PAT 02-FEB-2004
DEFINITION Sequence 7612 from Patent WO0192524.
ACCESSION CQ622872
VERSION CQ622872.1 GI:41673090
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homnidae; Homo.
REFERENCE
1 Gu, Y., Ji, Y., Penn, S.G., Hanzel, D.K., Rank, D.R., Chen, W. and Shannon, M.E. Myosin-like gene expressed in human heart and muscle
JOURNAL Patent: WO 0192524-A 7612 06-DEC-2001;
FEATURES
source
1.17
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"
Query Match 61.0%; Score 12.2; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 4.5;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
Qy 1 CCTCATGTCACATGGA 17
Db 17 CCTCAGGTCACAGGTA 1
RESULT 5
LOCUS AR463935 17 bp DNA linear PAT 20-FEB-2004
DEFINITION Sequence 7612 from patent US 6686188.
ACCESSION AR463935
VERSION AR463935.1 GI:42698992
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
Unclassified.

REFERENCE 1 (bases 1 to 17)
AUTHORS Gu, Y., Ji, Y., Penn, S.G., Hanzel, D.K., Rank, D.R., Chen, W. and Shannon, M.E.
TITLE Polynucleotide encoding a human myosin-like polypeptide expressed predominantly in heart and muscle
JOURNAL Patent: US 6686188-A 7612 03-FEB-2004;
Amersham PLC; Buckinghamshire;
GBX;
FEATURES
source
1.17
/organism="unknown"
/mol_type="genomic DNA"
Query Match 61.0%; Score 12.2; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 4.5;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
Qy 1 CCTCATGTCACATGGA 17
Db 17 CCTCAGGTCACAGGTA 1
RESULT 6
LOCUS AR180445 15 bp DNA linear PAT 20-APR-2002
DEFINITION Sequence 513 from patent US 6333152.
ACCESSION AR180445
VERSION AR180445.1 GI:20222478
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
Unclassified.
REFERENCE
1 (bases 1 to 15)
AUTHORS Vogelstein, B., Kinzler, K.W., Zhang, L. and Zhou, W. Gene expression profiles in normal and cancer cells
JOURNAL Patent: US 6333152-A 513 25-DEC-2001;
FEATURES
source
1.15
/organism="unknown"
/mol_type="unassigned DNA"
Query Match 54.0%; Score 10.8; DB 1; Length 15;
Best Local Similarity 85.7%; Pred. No. 6.8;
Matches 12; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
Qy 4 CATGTCACATGGA 17
Db 1 CATGGCCACATGGA 14
RESULT 7
LOCUS A71522 12 bp DNA linear PAT 07-MAY-1999
DEFINITION Sequence 81 from Patent WO9813521.
ACCESSION A71522
VERSION A71522.1 GI:4775134
KEYWORDS
SOURCE unidentified
ORGANISM unidentified
Unclassified sequences.
REFERENCE
1 (bases 1 to 12)
AUTHORS Fesce, R. and Consalez, G. METHOD FOR THE DIFFERENTIAL SCREENING OF GENE EXPRESSION BY RANDOM PRIMERED REVERSE TRANSCRIPTION-POLYMERASE CHAIN REACTION
JOURNAL Patent: WO 9813521-A 81 02-APR-1998;
FESCE RICCARDO (IT)
FEATURES
source
1.12
/organism="unidentified"
/mol_type="unassigned DNA"
/db_xref="taxon:32644"
Query Match 47.0%; Score 9.4; DB 1; Length 12;

Best Local Similarity 90.9%; Pred. No. 8.2;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 6 TCGTCACATGG 16
Db 2 TCGTCACATGG 12

RESULT 8

S74610

LOCUS 12 bp mRNA linear PRI 07-MAY-1993
DEFINITION lipoprotein lipase (exon 2-exon 3 boundary) [human, mRNA Partial
Mutant, 12 nt].

S74610

S74610.1 GI:241423

KEYWORDS

SOURCE

Homo sapiens (human)

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

PUBMED

REMARK

FEATURES

source

gene

CDS

/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
1..12
/gene="lipoprotein lipase, LPL"
1..12
/gene="lipoprotein lipase, LPL"
/note="contains in-frame 18-base pair deletion; LPL"
/codon_start=1
/product="lipoprotein lipase"
/protein_id="AAB20748.1"
/db_xref="GI:241424"
/translation="FMVT"

Query Match 47.0%; Score 9.4; DB 1; Length 12;
Best Local Similarity 90.9%; Pred. No. 8.2;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 TCGTCACATCA 13
Db 2 TCGTCACATCA 12

RESULT 9

AR759769

LOCUS 13 bp DNA linear PAT 08-DEC-2005
DEFINITION Sequence 12 from patent US 6958240.
ACCESSION AR759769
VERSION AR759769.1 GI:83326505
KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

FEATURES

source

/organism="unknown"
/mol_type="genomic DNA"

Query Match 47.0%; Score 9.4; DB 1; Length 13;
Best Local Similarity 90.9%; Pred. No. 9.8;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 TCGTCACATCA 13
Db 3 TCGTCACATCA 13

RESULT 10

AR759770/c

LOCUS 13 bp DNA linear PAT 08-DEC-2005
DEFINITION Sequence 13 from patent US 6958240.
ACCESSION AR759770
VERSION AR759770.1 GI:83326506
KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

PUBMED

REMARK

FEATURES

source

gene

CDS

/organism="unknown"
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1..13
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/mol_type="mRNA"
/db_xref="taxon:9606"
1..12
/gene="lipoprotein lipase, LPL"
1..12
/gene="lipoprotein lipase, LPL"
/note="contains in-frame 18-base pair deletion; LPL"
/codon_start=1
/product="lipoprotein lipase"
/protein_id="AAB20748.1"
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/translation="FMVT"

Query Match 47.0%; Score 9.4; DB 1; Length 13;
Best Local Similarity 90.9%; Pred. No. 9.8;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 TCGTCACATCA 13
Db 2 TCGTCACATCA 12

RESULT 11

LOCUS 12 bp DNA linear PAT 29-SEP-1999
DEFINITION Sequence 200 from patent US 5837832.
ACCESSION AR058623
VERSION AR058623.1 GI:5984200
KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

FEATURES

source

Query Match 45.0%; Score 9; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 10;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 12 CATGATGA 20
Db 11 CATGATGA 3

RESULT 12

I04322

LOCUS I04322 12 bp DNA linear PAT 02-DEC-1994
DEFINITION Sequence 7 from Patent EP 0147819.
ACCESSION I04322
VERSION I04322.1 GI:591774
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 12)
AUTHORS Kung,H.-F. and Yamazaki,S.
TITLE Purification of recombinant Interleukin-2
JOURNAL Patent: EP 0147819-A2 7 10-JUL-1985;
FEATURES
source Location/Qualifiers
1..12
/organism="unknown"
/mol_type="unassigned DNA"

Query Match 44.0%; Score 8.8; DB 1; Length 12;
Best Local Similarity 83.3%; Pred. No. 11;
Matches 10; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 6 TGTGCACATGGA 17
| | | | | | | | | |
Db 1 TTGTGACGTGGA 12

RESULT 13
AR024074/c AR024074 12 bp DNA linear PAT 05-DEC-1998
DEFINITION Sequence 24 from patent US 5795778.
ACCESSION AR024074
VERSION AR024074.1 GI:3977368
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 12)
AUTHORS Draper,K.G.
TITLE Method and reagent for inhibiting herpes simplex virus replication
JOURNAL Patent: US 5795778-A 24 18-AUG-1998;
FEATURES
source Location/Qualifiers
1..12
/organism="unknown"
/mol_type="unassigned DNA"

Query Match 42.0%; Score 8.4; DB 1; Length 12;
Best Local Similarity 90.0%; Pred. No. 13;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 TCATGTCAC 12
| | | | | | | | | |
Db 12 TCATGTCAC 3

RESULT 14
AR075457/c AR075457 12 bp DNA linear PAT 30-AUG-2000
DEFINITION Sequence 10 from patent US 5958424.
ACCESSION AR075457
VERSION AR075457.1 GI:10002207
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 12)
AUTHORS Noteborn,M.H.M. and De Boer,G.F.
TITLE Recombinant chicken anemia virus particle
JOURNAL Patent: US 5958424-A 10 28-SEP-1999;
FEATURES
source Location/Qualifiers
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/organism="unknown"
/mol_type="unassigned DNA"

Query Match 42.0%; Score 8.4; DB 1; Length 12;
Best Local Similarity 90.0%; Pred. No. 13;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 7 GGTCACATGG 16
| | | | | | | | | |
Db 12 GGTCACGTGG 3

RESULT 15
AR108947/c AR108947 12 bp DNA linear PAT 14-FEB-2001
DEFINITION Sequence 2 from patent US 6113913.
ACCESSION AR108947
VERSION AR108947.1 GI:12825223
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 12)
AUTHORS Brough,D.E. and Kovesdi,I.
TITLE Recombinant adenovirus
JOURNAL Patent: US 6113913-A 2 05-SEP-2000;
FEATURES
source Location/Qualifiers
1..12
/organism="unknown"
/mol_type="unassigned DNA"

Query Match 42.0%; Score 8.4; DB 1; Length 12;
Best Local Similarity 90.0%; Pred. No. 13;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 7 GGTCACATGG 16
| | | | | | | | | |
Db 12 GGTCACGTGG 3

RESULT 16
AR153908/c AR153908 12 bp DNA linear PAT 08-AUG-2001
DEFINITION Sequence 10 from patent US 6238669.
ACCESSION AR153908
VERSION AR153908.1 GI:15121961
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 12)
AUTHORS Noteborn,M.H.M. and De Boer,G.F.
TITLE Proteins encoded by chicken anemia virus DNA and diagnostic kits
JOURNAL Patent: US 6238669-A 10 29-MAY-2001;
FEATURES
source Location/Qualifiers
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/organism="unknown"
/mol_type="unassigned DNA"

Query Match 42.0%; Score 8.4; DB 1; Length 12;
Best Local Similarity 90.0%; Pred. No. 13;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 7 GGTCACATGG 16
| | | | | | | | | |
Db 12 GGTCACGTGG 3

RESULT 17
AR172244/c AR172244 12 bp DNA linear PAT 17-DEC-2001
DEFINITION Sequence 68 from patent US 6303295.
ACCESSION AR172244
VERSION AR172244.1 GI:17911735
KEYWORDS

```

SOURCE      Unknown.
ORGANISM    Unknown.
REFERENCE   1 (bases 1 to 12)
AUTHORS    Taylor,E.Will., Nadimpalli,R.Gopal, and Ramanathan,C.Sekar.
TITLE      Selenoprotein, coding sequences and methods
JOURNAL    Patent: US 6303295-A 68 16-OCT-2001;
FEATURES    Location/Qualifiers
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              /organism="unknown"
              /mol_type="unassigned DNA"

Query Match      42.0%; Score 8.4; DB 1; Length 12;
Best Local Similarity 90.0%; Pred. No. 13;
Matches          9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2 CTCAGGTGCA 11
        |||||
        11 CTCAGGTGCA 2

RESULT 18
ARI78525/c  ARI78525      12 bp   DNA      linear   PAT 20-APR-2002
LOCUS      Sequence 10 from patent US 6319693.
DEFINITION ARI78525
ACCESSION  ARI78525
VERSION    ARI78525.1 GI:20219663
KEYWORDS
SOURCE     Unknown.
ORGANISM   Unknown.
REFERENCE  1 (bases 1 to 12)
AUTHORS    Noteborn,M.H.M., and de Boer,G.F.
TITLES     Cloning of chicken anemia virus DNA
JOURNAL    Patent: US 6319693-A 10 20-NOV-2001;
FEATURES    Location/Qualifiers
            source
              1..12
              /organism="unknown"
              /mol_type="unassigned DNA"

Query Match      42.0%; Score 8.4; DB 1; Length 12;
Best Local Similarity 90.0%; Pred. No. 13;
Matches          9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      7 GGTACATGG 16
        |||||
        12 GGTACATGG 3

RESULT 19
BD001178/c  BD001178      12 bp   RNA      linear   PAT 31-JAN-2002
LOCUS      Method and reagent for inhibiting viral replication.
DEFINITION BD001178
ACCESSION  BD001178
VERSION    BD001178.1 GI:18625737
KEYWORDS   JP 2000342285-A/338.
SOURCE     synthetic construct
            other sequences; artificial sequences.
            1 (bases 1 to 12)
            Draper,K.G., Dadyktz,L.W., Macswigen,J.A., Maysejak,D.G.,
            Holesek,J.J. and Mamone,A.J.
TITLE      Method and reagent for inhibiting viral replication
JOURNAL    Patent: JP 2000342285-A 338 12-DEC-2000;
FEATURES    RIBOZYME PHARMACEUTICALS INC
            OS Artificial Sequence
            PN JP 2000342285-A/338
            PD 12-DEC-2000
            PR 01-MAY-2000 JP 2000132616
            PR 11-MAY-1992 US 07/882689,14-MAY-1992 US 07/882712 PR
            14-MAY-1992 US 07/882713,14-MAY-1992 US 07/882714 PR
            14-MAY-1992 US 07/882823,14-MAY-1992 US 07/882824 PR
            14-MAY-1992 US 07/882886,14-MAY-1992 US 07/882888 PR

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14-MAY-1992 US 07/882889,14-MAY-1992 US 07/882921 PR
14-MAY-1992 US 07/882922,14-MAY-1992 US 07/883823 PR
14-MAY-1992 US 07/883849,14-MAY-1992 US 07/884073 PR
14-MAY-1992 US 07/884074,14-MAY-1992 US 07/884333 PR
14-MAY-1992 US 07/884422,14-MAY-1992 US 07/884521 PR
14-MAY-1992 US 07/884436,14-MAY-1992 US 07/884521 PR
31-JUL-1992 US 07/923738,26-AUG-1992 US 07/935854 PR
26-AUG-1992 US 07/936086,18-SEP-1992 US 07/948359 PR
15-OCT-1992 US 07/963322,07-DEC-1992 US 07/987129 PR
KENNETH G DRAPER, LEC W DADYKTZ, JAMES A MACSWIGEN, PI DENNIS G
MAYSEJAK.
PI JAMES J HOLESEK, ANTHONY J MAMONE
PC C12N15/09, C12N5/10, C12N7/00, C12N9/22//C12N5/10, C12R1:91), PC
C12N15/00,
PC C12N5/00, (C12N5/00, C12R1:91)
CC
FH Key 1.12 Location/Qualifiers
FT source 1.12 /organism='Artificial Sequence'.

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  /organism="synthetic construct"
  /mol_type="genomic RNA"
  /db_xref="taxon:32630"

Query Match      42.0%; Score 8.4; DB 1; Length 12;
Best Local Similarity 90.0%; Pred. No. 13;
Matches          9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      3 TCATGTCAC 12
        |||||
        12 TCATGTCAC 3

RESULT 20
BD001607/c  BD001607      12 bp   RNA      linear   PAT 31-JAN-2002
LOCUS      Method and reagent for inhibiting viral replication.
DEFINITION BD001607
ACCESSION  BD001607
VERSION    BD001607.1 GI:18626166
KEYWORDS   JP 2000342286-A/338.
SOURCE     synthetic construct
            other sequences; artificial sequences.
            1 (bases 1 to 12)
            Draper,K.G., Dadyktz,L.W., Macswigen,J.A., Maysejak,D.G.,
            Holesek,J.J. and Mamone,A.J.
TITLE      Method and reagent for inhibiting viral replication
JOURNAL    Patent: JP 2000342286-A 338 12-DEC-2000;
FEATURES    RIBOZYME PHARMACEUTICALS INC
            OS Artificial Sequence
            PN JP 2000342286-A/338
            PD 12-DEC-2000
            PR 01-MAY-2000 JP 2000132651
            PR 11-MAY-1992 US 07/882689,14-MAY-1992 US 07/882712 PR
            14-MAY-1992 US 07/882713,14-MAY-1992 US 07/882714 PR
            14-MAY-1992 US 07/882823,14-MAY-1992 US 07/882824 PR
            14-MAY-1992 US 07/882866,14-MAY-1992 US 07/882888 PR
            14-MAY-1992 US 07/882889,14-MAY-1992 US 07/882921 PR
            14-MAY-1992 US 07/882922,14-MAY-1992 US 07/883823 PR
            14-MAY-1992 US 07/883849,14-MAY-1992 US 07/884073 PR
            14-MAY-1992 US 07/884074,14-MAY-1992 US 07/884333 PR
            14-MAY-1992 US 07/884422,14-MAY-1992 US 07/884521 PR
            14-MAY-1992 US 07/884436,14-MAY-1992 US 07/884521 PR
            31-JUL-1992 US 07/923738,26-AUG-1992 US 07/935854 PR
            26-AUG-1992 US 07/936086,18-SEP-1992 US 07/948359 PR
            15-OCT-1992 US 07/963322,07-DEC-1992 US 07/987129 PR
            07/987130,07-DEC-1992 US 07/987133 PI
            KENNETH G DRAPER, LEC W DADYKTZ, JAMES A MACSWIGEN, PI DENNIS G
            MAYSEJAK,
            PI JAMES J HOLESEK, ANTHONY J MAMONE
            PC C12N15/09, C12N5/10, C12N7/00//A61K38/43, A61K39/125, A61K39/13,

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PC A61K39/145,A61K39/21,A61K39/23,A61K39/245,A61K39/29,A61K48/00,
PC A61P1/16,
PC A61P31/14,A61P31/16,A61P31/18,A61P31/22,A61P35/02,C12Q1/68, PC
(C12N15/09,C12R1:93),C12N15/00,C12N5/00,A61K37/48,(C12N15/00, PC
C12R1:93)
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FH Key Location/Qualifiers
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/mol_type='genomic RNA'
/db_xref='taxon:32630'

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source
1..12
Location/Qualifiers
1..12
/organism='synthetic construct'

Query Match 42.0%; Score 8.4; DB 1; Length 12;
Best Local Similarity 90.0%; Pred. No. 13;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 TCATGCTCAC 12
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12 TCATGCTCAC 3

Db 12 TCATGCTCAC 3

RESULT 21
LOCUS BD064941/c 12 bp DNA linear PAT 27-AUG-2002
DEFINITION Method for detecting the extent of binding of transcriptional
regulatory protein to oligoDNA.
ACCESSION BD064941
VERSION BD064941.1 GI:22610544
KEYWORDS JP 2001275678-A/153.
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.
1 (bases 1 to 12)
Kishimoto,T., Niwa,S., Mori,Y., Sachiyo, Mimaki, Fukushima,R. and
Nishikawa,K.
TITLE Method for detecting the extent of binding of transcriptional
regulatory protein to oligoDNA
JOURNAL Patent: JP 2001275678-A 153 09-OCT-2001;
SUMITOMO ELECTRIC INDUSTRIES LTD
COMMENT OS Artificial Sequence
PN JP 2001275678-A/153
PD 09-OCT-2001
PF 31-MAR-2000 JP 2000096306
PI TOSHIHIKO KISHIMOTO,SHINICHIRO NIWA,YUKO MORI,SACHIYO PI
MIMAKI,REI FUKUSHIMA,
PI KAZUKO NISHIKAWA
PC C12N15/09,C12N5/10,C12Q1/00,C12Q1/68,C12N15/00,C12N5/00 CC
Synthetic DNA
FH Key Location/Qualifiers
FT source 1..12
/organism='Artificial Sequence'.
/mol_type='genomic DNA'
/db_xref='taxon:32630'

FEATURES
source
1..12
Location/Qualifiers
1..12
/organism='synthetic construct'

Query Match 42.0%; Score 8.4; DB 1; Length 12;
Best Local Similarity 90.0%; Pred. No. 13;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 7 GGTCACTATG 16
|||||
12 GGTCACTATG 3

Db 12 GGTCACTATG 3

RESULT 22
LOCUS BD240723/c 12 bp DNA linear PAT 17-JUL-2003

DEFINITION Replication-deficient recombinant adenovirus having mutation major
late promoter.
ACCESSION BD240723
VERSION BD240723.1 GI:33050493
KEYWORDS JP 2002519036-A/2.
SOURCE unidentified
ORGANISM unidentified
REFERENCE 1 (bases 1 to 12)
Brough,D.E. and Kovsed,I.
AUTHORS Brough,D.E. and Kovsed,I.
TITLE Replication-deficient recombinant adenovirus having mutation major
late promoter
JOURNAL Patent: JP 2002519036-A 2 02-JUL-2002;
GENVEC, INC
COMMENT OS Human adenovirus serotype 5
PN JP 2002519036-A/2
PD 02-JUL-2002
PF 24-JUN-1999 JP 2000557381
PR 26-JUN-1998 US 09/105515
PI DOUGLAS E BROUGH,IMRE KOVSEDI
PC C12N15/09,C12N5/10,C12N7/00//A61K35/76,A61K39/235,A61K48/00,
PC C12N15/00,
PC C12N5/00
CC Replication-deficient recombinant adenovirus having mutation
CC promoter major late
CC Key Location/Qualifiers
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/organism='Human adenovirus serotype 5'.
/mol_type='genomic DNA'
/db_xref='taxon:32644'

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Location/Qualifiers
1..12
/organism='unidentified'

Query Match 42.0%; Score 8.4; DB 1; Length 12;
Best Local Similarity 90.0%; Pred. No. 13;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 7 GGTCACTATG 16
|||||
12 GGTCACTATG 3

Db 12 GGTCACTATG 3

RESULT 23
LOCUS BD261806 12 bp DNA linear PAT 17-JUL-2003
DEFINITION Enhancement in protein production by higher plants using ubiquitin
or cucumber mosaic virus coating protein peptide.
ACCESSION BD261806
VERSION BD261806.1 GI:33071574
KEYWORDS JP 2002532098-A/10.
SOURCE unidentified
ORGANISM unidentified
REFERENCE 1 (bases 1 to 12)
Fang,R.X., Wu,J.L. and Chen,X.Y.
AUTHORS Fang,R.X., Wu,J.L. and Chen,X.Y.
TITLE Enhancement in protein production by higher plants using ubiquitin
or cucumber mosaic virus coating protein peptide
JOURNAL Patent: JP 2002532098-A 10 02-OCT-2002;
INSTITUTE OF MOLECULAR AGRICULTURE
COMMENT OS Plasmid pCL
PN JP 2002532098-A/10
PD 02-OCT-2002
PF 11-DEC-1998 JP 2000586378
PI RONG XIANG FANG,JUNG LIN WU,XIAO YING CHEN
PC C12N15/09,A01H5/00,C07K14/415,C07K19/00,C12N5/10,C12N15/00, PC
C12N5/00
CC Joining region between fusion of genes.
FH Key Location/Qualifiers
FT misc_feature (1)..(12).
Location/Qualifiers
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Query Match
Best Local Similarity 42.0%; Score 8.4; DB 1; Length 12;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 8 GTCACATGGA 17
Db 2 GTCGACATGGA 11

RESULT 24
LOCUS CQ828540 12 bp DNA linear PAT 05-JUL-2004
DEFINITION Sequence 258 from Patent WO2004053120.
ACCESSION CQ828540
VERSION CQ828540.1 GI:49732023
KEYWORDS
SOURCE
ORGANISM Rattus norvegicus (Norway rat)
Rattus norvegicus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia;
Sciurognathi; Muridea; Muridae; Murinae; Rattus.
REFERENCE
1 Weihe, E., Bieller, A. and Schaefer, M.K.
Regulatory elements in the 5' region of the vrl gene
Patent: WO 2004053120-A 258 24-JUN-2004;
Gruenthal GmbH (DE)
FEATURES
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/note="V$IK2 01"

Query Match
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Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 10 CACATGATG 19
Db 1 CACAGGATG 10

RESULT 25
LOCUS I17542 12 bp DNA linear PAT 07-OCT-1996
DEFINITION Sequence 10 from patent US 5491073.
ACCESSION I17542
VERSION I17542.1 GI:1597897
KEYWORDS
SOURCE
ORGANISM Unknown.
REFERENCE
1 (bases 1 to 12)
AUTHORS Noteborn, M.H.M. and de Boer, G.F.
TITLE Cloning of chicken anaemia DNA
JOURNAL Patent: US 5491073-A 10 13-FEB-1996;
FEATURES
source 1..12
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/mol_type="unassigned DNA"

Query Match
Best Local Similarity 42.0%; Score 8.4; DB 1; Length 12;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 7 GGTCAATG 16
Db 12 GGTCAATG 3
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RESULT 26
LOCUS AR224293/C 12 bp DNA linear PAT 26-SEP-2002
DEFINITION Sequence 24 from patent US 6440719.
ACCESSION AR224293
VERSION AR224293.1 GI:23333070
KEYWORDS
SOURCE
ORGANISM Unknown.
REFERENCE
1 (bases 1 to 12)
AUTHORS Draper, K.G.
TITLE Method and reagent for inhibiting herpes simplex virus replication
JOURNAL Patent: US 6440719-A 24 27-AUG-2002;
Ribozyme Pharmaceuticals, Inc.; Boulder, CO
FEATURES
source 1..12
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Query Match
Best Local Similarity 42.0%; Score 8.4; DB 1; Length 12;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 3 TCATGTCAC 12
Db 12 TCATGTCAC 3

RESULT 27
LOCUS AR234464/C 12 bp DNA linear PAT 20-DEC-2002
DEFINITION Sequence 2 from patent US 6458578.
ACCESSION AR234464
VERSION AR234464.1 GI:27277166
KEYWORDS
SOURCE
ORGANISM Unknown.
REFERENCE
1 (bases 1 to 12)
AUTHORS Brough, D.B. and Kovacs, I.
TITLE Recombinant cell line produces adenoviral gene products E1 and
JOURNAL DEF-A, and/or DEF-B
Patent: US 6458578-A 2 01-OCT-2002;
GenVec, Inc.; Gaithersburg, MD
FEATURES
source 1..12
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/mol_type="genomic DNA"

Query Match
Best Local Similarity 42.0%; Score 8.4; DB 1; Length 12;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 7 GGTCAATG 16
Db 12 GGTCAATG 3

RESULT 28
LOCUS AR275829/C 12 bp DNA linear PAT 10-APR-2003
DEFINITION Sequence 10 from patent US 6509446.
ACCESSION AR275829
VERSION AR275829.1 GI:29709474
KEYWORDS
SOURCE
ORGANISM Unknown.
REFERENCE
1 (bases 1 to 12)
AUTHORS Noteborn, M.H.M. and De Boer, G.F.
TITLE Cloning of chicken anemia DNA
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JOURNAL Patent: US 6509446-A 10 21-JAN-2003;

Lead: B.V.; Leiden;

NLX;

FEATURES Location/Qualifiers

source

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Query Match 42.0%; Score 8.4; DB 1; Length 12;

Best Local Similarity 90.0%; Pred. No. 13;

Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 7 GGTCACATGG 16

Db 12 GGTCACGTGG 3

RESULT 29

158612/c

LOCUS 158612 12 bp DNA linear PAT 07-OCT-1997

DEFINITION Sequence 3 from patent US 5652144.

ACCESSION 158612

VERSION 158612.1 GI:2477850

KEYWORDS

SOURCE Unknown.

ORGANISM

REFERENCE Unclassified.

1 (bases 1 to 12)

AUTHORS Lu, Y. and Haseltine, W.A.

TITLE YCI gene

JOURNAL Patent: US 5652144-A 3 29-JUL-1997;

FEATURES Location/Qualifiers

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Query Match 42.0%; Score 8.4; DB 1; Length 12;

Best Local Similarity 90.0%; Pred. No. 13;

Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 7 GGTCACATGG 16

Db 12 GGTCACGTGG 3

RESULT 30

172395/c

LOCUS 172395 12 bp DNA linear PAT 03-APR-1998

DEFINITION Sequence 26 from patent US 5683985.

ACCESSION 172395

VERSION 172395.1 GI:3008534

KEYWORDS

SOURCE Unknown.

ORGANISM

REFERENCE Unclassified.

1 (bases 1 to 12)

AUTHORS Chu B.Chen, Pei, and Orgel, L.

TITLE Oligonucleotide decays and methods relating thereto

JOURNAL Patent: US 5683985-A 26 04-NOV-1997;

FEATURES Location/Qualifiers

1. .12

/organism="unknown"
/mol_type="unassigned DNA"

Query Match 42.0%; Score 8.4; DB 1; Length 12;

Best Local Similarity 90.0%; Pred. No. 13;

Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 7 GGTCACATGG 16

Db 12 GGTCACGTGG 3

RESULT 31

AR577337

LOCUS AR577337 12 bp DNA linear PAT 14-DEC-2004

DEFINITION Sequence 54 from patent US 677544.

ACCESSION AR577337

VERSION AR577337.1 GI:56579871

KEYWORDS

SOURCE Unknown.

ORGANISM

REFERENCE Unclassified.

1 (bases 1 to 12)

AUTHORS Uhlmann, E., Breipohl, G. and Will, D.W.

TITLE Polyamide nucleic acid derivatives and agents and processes for

preparing them

JOURNAL Patent: US 677544-A 54 17-AUG-2004;

Aventis Pharma Deutschland GmbH; Frankfurt;

DEX;

FEATURES

Location/Qualifiers

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/mol_type="genomic DNA"

Query Match 42.0%; Score 8.4; DB 1; Length 12;

Best Local Similarity 90.0%; Pred. No. 13;

Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 CCTCATGCTC 10

Db 2 CATCATGCTC 11

RESULT 32

AR699868

LOCUS AR699868 12 bp DNA linear PAT 14-SEP-2005

DEFINITION Sequence 38 from patent US 6919441.

ACCESSION AR699868

VERSION AR699868.1 GI:75205772

KEYWORDS

SOURCE Unknown.

ORGANISM

REFERENCE Unclassified.

1 (bases 1 to 12)

AUTHORS Uhlmann, E. and Breipohl, G.

TITLE Polyamide-oligonucleotide derivatives, their preparation and use

JOURNAL Patent: US 6919441-A 38 19-JUL-2005;

Aventis Pharma Deutschland GmbH; Frankfurt;

DEX;

FEATURES Location/Qualifiers

1. .12
/organism="unknown"
/mol_type="genomic DNA"

Query Match 42.0%; Score 8.4; DB 1; Length 12;

Best Local Similarity 90.0%; Pred. No. 13;

Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 CCTCATGCTC 10

Db 2 CATCATGCTC 11

RESULT 33

AR699877

LOCUS AR699877 12 bp DNA linear PAT 14-SEP-2005

DEFINITION Sequence 48 from patent US 6919441.

ACCESSION AR699877

VERSION AR699877.1 GI:75205785

KEYWORDS

SOURCE Unknown.

ORGANISM

REFERENCE Unclassified.

1 (bases 1 to 12)

AUTHORS Uhlmann, E. and Breipohl, G.

TITLE Polyamide-oligonucleotide derivatives, their preparation and use
JOURNAL Patent: US 6919441-A 48 19-JUL-2005;
Aventis Pharma Deutschland GmbH; Frankfurt;
DEX;

FEATURES
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Best Local Similarity 90.0%; Pred. No. 13;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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Db 2 CATCATGTC 11

RESULT 34
AR699878/c
LOCUS AR699878 12 bp DNA linear PAT 14-SEP-2005
DEFINITION Sequence 49 from patent US 6919441.
ACCESSION AR699878
VERSION AR699878.1 GI:75205786
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.

REFERENCE 1 (bases 1 to 12)
AUTHORS Uhlmann,E. and Breipohl,G.
TITLE Polyamide-oligonucleotide derivatives, their preparation and use
JOURNAL Patent: US 6919441-A 49 19-JUL-2005;
Aventis Pharma Deutschland GmbH; Frankfurt;
DEX;

FEATURES
source Location/Qualifiers
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Db 11 CATCATGTC 2

RESULT 35
AX283286
LOCUS AX283286 12 bp DNA linear PAT 20-NOV-2001
DEFINITION Sequence 50 from Patent WO0179249.
ACCESSION AX283286
VERSION AX283286.1 GI:17044167
KEYWORDS
SOURCE Synthetic construct
ORGANISM Synthetic construct
other sequences; artificial sequences.

REFERENCE 1
AUTHORS Uhlmann,E., Breipohl,G. and Will,D.W.
TITLE Polyamide nucleic acid derivatives, agents and methods for
JOURNAL Patent: WO 0179249-A 50 25-OCT-2001;
Aventis Pharma Deutschland GmbH (DE)
Location/Qualifiers
1.12
/organism="synthetic construct"
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/db_xref="taxon:32630"
/note="Beschreibung der kuenstlichen Sequenz:
Oligonukleotide"

Query Match 42.0%; Score 8.4; DB 1; Length 12;

Best Local Similarity 90.0%; Pred. No. 13;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 CCTCATGTC 10
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Db 2 CATCATGTC 11

RESULT 36
AX711060 12 bp RNA linear PAT 11-APR-2003
LOCUS AX711060/c
DEFINITION Sequence 360 from Patent EP1288296.
ACCESSION AX711060
VERSION AX711060.1 GI:29787441
KEYWORDS
SOURCE Herpes simplex virus unknown type
ORGANISM Herpes simplex virus unknown type
Viruses; dsDNA viruses, no RNA stage; Herpesviridae;
Alphaherpesvirinae; Simplexvirus; Unclassified Simplexvirus.

REFERENCE 1
AUTHORS Draper,K.G., Mcswigen,J.A., Holecek,J.J., Dudyocz,L.W.,
Macejak,D.G. and Mamone,J.A.
TITLE Method and reagent for inhibiting HBV viral replication
JOURNAL Patent: EP 1288296-A 360 05-MAR-2003;
RIBOZYME PHARMACEUTICALS, INC. (US)
Location/Qualifiers
1.12
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/mol_type="unassigned RNA"
/db_xref="taxon:126283"

Query Match 42.0%; Score 8.4; DB 1; Length 12;
Best Local Similarity 90.0%; Pred. No. 13;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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Db 12 TCATGTCAC 3

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